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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:39:33 : Search time 37 Seconds
(without alignments)
1813.343 Million cell updates/sec

Title: US-09-687-609a-1
Perfect score: 1371
Sequence: 1 GSHMIEGECPIFLNVLAE.....SVQPKILSGKVPYFHTQ 260

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: SP archaea:*
2: SP bacteria:*
3: SP fungi:*
4: SP human:*
5: SP invertebrate:*
6: SP mammal:*
7: SP mhc:*
8: SP organelle:*
9: SP phage:*
10: SP plant:*
11: SP rodent:*
12: SP virus:*
13: SP vertebrate:*
14: SP unclassified:*
15: SP virus:*
16: SP bacteriophage:*
17: SP archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1349.5	98.4	896	6 O9GKLT7	O9GKLT7 sus scrofa
2	1346.5	98.2	912	6 O8MIKO	O8MIKO crocuta cro
3	1336.5	97.5	906	4 O9UN21	O9UN21 homo sapien
4	1330	97.0	730	4 O13771	O13771 homo sapien
5	1326.5	96.8	895	6 O9GKN9	O9GKN9 sus scrofa
6	1285	93.7	333	13 O8JH77	O8JH77 poephila gu
7	1224	88.3	790	13 P70048	P70048 xenopus lae
8	1217	88.8	344	13 O91445	O91445 serinus can
9	1061.5	77.4	303	6 O97684	O97684 ovis aries
10	935	68.2	853	13 O93245	O93245 oncorhynch
11	930	67.8	839	13 O8OFV2	O8OFV2 carassius a
12	928	67.7	769	13 O93497	O93497 pagrus majo
13	925	67.5	797	13 O9PM65	O9PM65 anguilla ja
14	911	66.4	563	13 O9DDU4	O9DDU4 halichoeres
15	909	66.3	848	13 O9YGV9	O9YGV9 anguilla ja
16	909	66.3	854	13 O93244	O93244 oncorhynch

17	896	65.4	763	13 O8OFV7	O8OFV7 haplochromi
18	884	64.5	763	13 O8UWB7	O8UWB7 oreochromis
19	797	58.1	688	13 O8UWB8	O8UWB8 oreochromis
20	792	57.8	232	13 O91A30	O91A30 anolis caro
21	782	57.0	692	13 O9W6F4	O9W6F4 haplochromi
22	774	56.5	703	13 O8UYV3	O8UYV3 xenopus lae
23	773	56.4	732	13 O9DDU9	O9DDU9 xenopus lae
24	768	56.0	583	13 O9DRT4	O9DRT4 xenopus lae
25	766	55.9	939	6 O9GLM0	O9GLM0 canis faml
26	759	55.4	698	11 O8BW69	O8BW69 mus muscullu
27	759	55.4	711	13 O8AY12	O8AY12 rana dybows
28	734	53.5	710	13 O91BD5	O91BD5 anguilla ja
29	720	52.5	360	13 O42274	O42274 crocodylus
30	720	52.5	438	13 O90ZM7	O90ZM7 petromyzon
31	711	51.9	348	13 O91425	O91425 chemidophor
32	678	49.5	401	13 O90ZM6	O90ZM6 petromyzon
33	677.5	49.4	359	13 O91AC6	O91AC6 oncorhynch
34	673	49.1	298	6 O28547	O28547 ovis aries
35	668	48.7	993	13 O8JTB9	O8JTB9 haplochromi
36	664.5	48.5	779	13 O8JTB9	O8JTB9 haplochromi
37	662	48.3	689	13 O8OGX5	O8OGX5 anguilla ja
38	662	48.3	982	6 O9N0W8	O9N0W8 salmilti sci
39	658.5	48.0	793	13 O8JTB9	O8JTB9 haplochromi
40	658.5	48.0	802	13 O8JTB9	O8JTB9 haplochromi
41	654.5	47.7	793	11 O8R5J0	O8R5J0 rattus norv
42	654.5	47.7	794	11 O8R463	O8R463 rattus norv
43	628	45.8	284	13 O90Y00	O90Y00 petromyzon
44	596	43.5	831	4 O8TDS3	O8TDS3 homo sapien
45	590	43.0	258	6 O9BDJ7	O9BDJ7 ovis aries

ALIGNMENTS

RESULT 1
O9GKLT7
ID O9GKLT7 PRELIMINARY, PRT, 896 AA.
AC O9GKLT7
DT 01-MAR-2001 (TREMBLrel. 16, Created)
DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Androgen receptor.
OS Sus scrofa (pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suidae; Sus.
OC NCBI_TaxID=9623;
OX
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Plutitary;
RA Song J.H., Fahrenkrug S.C., Rohrer G.A., Wise T.H., Ford J.J.;
RT "Sus scrofa androgen receptor (AR) coding sequence."
RL Submitted (NOV-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Plutitary;
RA Song J.H., Fahrenkrug S.C., Rohrer G.A., Wise T.H., Ford J.J.;
RT "Porcine androgen receptor (AR) cDNA cloning: Expression in pituitary associates with FSH secretion in boars."
RL Submitted (NOV-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
DR EMBL, AF022775; AAC37994.1; -
DR HSSP, P06536; 1GDC.
DR InterPro, IPR001103; Andrgn_receptor.
DR InterPro, IPR000536; Hormone_rec_1lg.
DR InterPro, IPR001628; Znf_C4steroid.
DR Pfam, PF02166; Androgen_recep. 1.
DR Pfam, PF00104; hormone_rec. 1.
DR Pfam, PF00105; zf-C4; 1.
DR PRINTS, PR00047; STROIDPINGER.
DR PRODOM, PD000035; Znf_C4steroid. 1.
DR SMART, SM00430; HOL1; 1.
DR SMART, SM00399; Znf_C4; 1.

DR PROSITE: PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 SQ SEQUENCE 896 AA; 97094 MW; 440F5F6E73BDC796 CRC64;

Query Match 98.4%; Score 1349.5; DB 6; Length 896;
 Best Local Similarity 99.6%; Pred. No. 3.5e-119;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 61
 DB 639 SH-IBGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 697
 QY 62 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 121
 DB 698 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 757
 QY 122 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 181
 DB 758 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 817
 QY 182 IIAKCKKPTSCSRFFQYLTGLDSVQPIARELHOFTFDLLIKSHMVSVDPEMAAIIIS 241
 DB 818 IIAKCKKPTSCSRFFQYLTGLDSVQPIARELHOFTFDLLIKSHMVSVDPEMAAIIIS 877
 QY 242 VOVPKILSGKVKPIYFHTQ 260
 DB 878 VOVPKILSGKVKPIYFHTQ 896

RESULT 2

Q8MIKO PRELIMINARY; PRT; 912 AA.

AC Q8MIKO; 01-OCT-2002 (T-EMBLrel. 22, Created)
 DT 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)
 DE Androgen receptor.
 OS Crocuta crocuta (Spotted hyena).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Carnivora; Fissipedia; Hyenidae; Crocuta.
 NCBI_TaxID=9678;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Catalano S., Avila D.M., McPhaul M.J., Marsico S., Wilson J.D.,
 RA Glickman S.E.;
 RT "Absence of association of the virilization of the female spotted
 RT hyena with alterations of the amino acid sequence of the androgen
 RT receptor (AR).";
 RL Mol. Cell. Endocrinol. 0:0-0(2002).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: AY128705; AAM96904.1; -
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec_119.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep; 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR Pfam: PF00104; hormone_rec; 1.
 DR PRINTS: PR00047; STROIDFINGER.
 DR PRODOM: PD000035; Znf_C4steroid; 1.
 DR SMART: SM00430; HOL1; 1.
 DR SMART: SM00399; Znf_C4; 1.
 DR PROSITE: PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 912 AA; 99957 MW; 8F5E35B1B743C1 CRC64;

Query Match 98.2%; Score 1346.5; DB 6; Length 912;
 Best Local Similarity 99.2%; Pred. No. 6.8e-119;
 Matches 257; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

2 SHMIEGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 61

DB 655 SH-IBGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 713
 QY 62 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 121
 DB 714 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 773
 QY 122 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 181
 DB 774 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 833
 QY 182 IIAKCKKPTSCSRFFQYLTGLDSVQPIARELHOFTFDLLIKSHMVSVDPEMAAIIIS 241
 DB 834 IIAKCKKPTSCSRFFQYLTGLDSVQPIARELHOFTFDLLIKSHMVSVDPEMAAIIIS 893
 QY 242 VOVPKILSGKVKPIYFHTQ 260
 DB 894 VOVPKILSGKVKPIYFHTQ 912

RESULT 3

Q9UN21 PRELIMINARY; PRT; 906 AA.

AC Q9UN21; 01-MAY-2000 (T-EMBLrel. 13, Created)
 DT 01-MAY-2000 (T-EMBLrel. 13, Last sequence update)
 DT 01-OCT-2002 (T-EMBLrel. 22, Last annotation update)
 DE Androgen receptor.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA TISSUE=Breast carcinoma;
 RC Jin C.H., Urcan-Bisell M.S., Schrader W.T.;
 RT "Androgen receptor sequences in human mammary carcinoma MDA-MB-453
 RT cells.";
 RL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: AF162704; AAD45921.1; -
 DR HSRP: P06536; IGDC.
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec_119.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep; 1.
 DR Pfam: PF00104; hormone_rec; 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00047; STROIDFINGER.
 DR PRODOM: PD000035; Znf_C4steroid; 1.
 DR SMART: SM00430; HOL1; 1.
 DR SMART: SM00399; Znf_C4; 1.
 DR PROSITE: PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 906 AA; 97884 MW; 0A1FA8802B2BD0AF CRC64;

Query Match 97.5%; Score 1336.5; DB 4; Length 906;
 Best Local Similarity 98.5%; Pred. No. 6e-118;
 Matches 255; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

QY 2 SHMIEGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 61
 DB 649 SH-IBGYECOPITPLNVLAIIPGVVCAAGHNNQDPSPALLSSINELGERQLVHVYKAK 707
 QY 62 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 121
 DB 708 ALPGFNNLHVDDQMAVIOYSWGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSRM 767
 QY 122 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 181
 DB 768 YSQCYRMHLSQEFQWLOITPOEFLCKALLFSIIPVGLKNQKFPDELNNYIKELDR 827

QY 182 IIAKCKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPEMAEITIS 241
 DB 828 IIAKCKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPEMAEITIS 887
 QY 242 VQVPKILSGKVPKPIYFHTQ 260
 DB 888 VQVPKILSGKVPKPIYFHTQ 906

RESULT 4

Q13771 PRELIMINARY; PRT; 730 AA.
 AC Q13771;
 DT 01-NOV-1996 (TREMBLrel. 01, Created)
 DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)
 DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
 DE Androgen receptor.
 GN AR.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RX MEDLINE=90258935; PubMed=2342476;
 RA Govindan M.V.;
 RT "Specific region in hormone binding domain is essential for hormone
 RT binding and trans-activation by human androgen receptor."
 RL Mol. Endocrinol. 4:417-427(1990).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: W73069; AAA51735.1; --
 DR HSSP: P06536; IGDC.
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec.19.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep. 1.
 DR Pfam: PF00104; hormone_rec. 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00047; STROIDFINGER.
 DR ProDom: PD000035; Znf_C4steroid. 1.
 DR SMART: SM00430; HOL1. 1.
 DR SMART: SM00399; Znf_C4; 1.
 DR PROSITE: PS00031; NUCLEAR_RECEPTOR; 1.
 DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 730 AA; 79150 MW; 918847C3B41B80C9 CRC64;

Query Match 97.0%; Score 1330; DB 4; Length 730;
 Best Local Similarity 96.6%; Pred. No. 1.9e-117;
 Matches 257; Conservative 0; Mismatches 1; Indels 8; Gaps 2;

QY 2 SHMIEGYECOPITLVLAIEIPGVVCAHDNNQPDSPFALLSLNIEIGERQLVHVVYKAK 61
 DB 466 SH-IEGYECOPITLVLAIEIPGVVCAHDNNQPDSPFALLSLNIEIGERQLVHVVYKAK 524
 QY 62 ALFGFRLNHDVDDQMAVIQYSWMGLVAFMGWRSFTVNSRMLYFAPDLVFNERYMKSRM 121
 DB 525 ALFGFRLNHDVDDQMAVIQYSWMGLVAFMGWRSFTVNSRMLYFAPDLVFNERYMKSRM 584
 QY 122 YSQCYRMHLSQEFQMLQITPOEFLCKAKLFFPFLIFSLIPVGLKNQKFPDELRLRM 174
 DB 585 YSQCYRMHLSQEFQMLQITPOEFLCKAKLFFPFLIFSLIPVGLKNQKFPDELRLRM 644
 QY 175 YIKELDRIIACKKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPE 234
 DB 645 YIKELDRIIACKKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPE 704
 QY 235 MMAEIIISVQVPKILSGKVPKPIYFHTQ 260
 DB 705 MMAEIIISVQVPKILSGKVPKPIYFHTQ 730

RESULT 5

Q9GKN9 PRELIMINARY; PRT; 895 AA.
 AC Q9GKN9;
 DT 01-MAR-2001 (TREMBLrel. 16, Created)
 DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
 DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
 DE Androgen receptor AR.
 OS Sus scrofa (Pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
 OC NCBI_TaxId=9823;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20539123; PubMed=11086548;
 RA Trakooljul N., Ponsuksili S., Scheilander K., Wimmers K.;
 RT "A highly polymorphic repetitive poly(pyrimidine/poly(purine (CCTTT)n
 RT sequence in the 5' untranslated sequence of the porcine androgen
 RT receptor gene."
 RL Anim. Genet. 31:288-289(2000).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: AF161717; AAG40566.1; --
 DR HSSP: P06536; IGDC.
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec.19.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep. 1.
 DR Pfam: PF00104; hormone_rec. 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00047; STROIDFINGER.
 DR ProDom: PD000035; Znf_C4steroid. 1.
 DR SMART: SM00430; HOL1. 1.
 DR SMART: SM00399; Znf_C4; 1.
 DR PROSITE: PS00031; NUCLEAR_RECEPTOR; 1.
 DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 895 AA; 97156 MW; 923C2FDD1F7E4779 CRC64;

Query Match 96.8%; Score 1326.5; DB 6; Length 895;
 Best Local Similarity 98.1%; Pred. No. 5.2e-117;
 Matches 254; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

QY 2 SHMIEGYECOPITLVLAIEIPGVVCAHDNNQPDSPFALLSLNIEIGERQLVHVVYKAK 61
 DB 638 SH-IEGYECOPITLVLAIEIPGVVCAHDNNQPDSPFALLSLNIEIGERQLVHVVYKAK 696
 QY 62 ALFGFRLNHDVDDQMAVIQYSWMGLVAFMGWRSFTVNSRMLYFAPDLVFNERYMKSRM 121
 DB 697 ALFGFRLNHDVDDQMAVIQYSWMGLVAFMGWRSFTVNSRMLYFAPDLVFNERYMKSRM 756
 QY 122 YSQCYRMHLSQEFQMLQITPOEFLCKAKLFFPFLIFSLIPVGLKNQKFPDELRLRM 181
 DB 757 YSQCYRMHLSQEFQMLQITPOEFLCKAKLFFPFLIFSLIPVGLKNQKFPDELRLRM 816
 QY 182 IIAKCKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPEMAEITIS 241
 DB 817 IIAKCKNPTSCRRFYOLTKLDSVOPARIELHOFTFDLLIKSHVSVDPPEMAEITIS 876
 QY 242 VQVPKILSGKVPKPIYFHTQ 260
 DB 877 VQVPKILSGKVPKPIYFHTQ 895
 RESULT 6
 Q8JH77 PRELIMINARY; PRT; 333 AA.
 AC Q8JH77;
 DT 01-OCT-2002 (TREMBLrel. 22, Created)
 DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)

DR Androgen receptor (Fragment).
 OS Poephila guttata (Zebra Finch). (Taeniopygia guttata).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Passeriformes; Estrildidae;
 OC Estrildinae; Taeniopygia.
 NCBI_TaxID=59729;
 OX
 RN
 RP SEQUENCE FROM N.A.
 RA Perlman W.R., Ramachandran B., Arnold A.P.;
 RT "Expression of Androgen Receptor mRNA in the Late Embryonic and Early
 RT Post-hatch Zebra Finch Brain."
 RL Submitted (Jun-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY)
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL; AF532914; AAM9669.1; -
 DR InterPro; IPR000536; Hormone_rec_1lg.
 DR InterPro; IPR001723; Steroid_receptor.
 DR InterPro; IPR001628; Znf_C4steroid.
 DR Pfam; PF00104; hormone_rec; 1.
 DR Pfam; PF00105; ZF-C4; 1.
 DR PRINTS; PR00398; STRDHOMONER.
 DR ProDom; PD000035; Znf_C4steroid; 1.
 DR SMART; SM00430; HOL1; 1.
 DR SMART; SM00399; ZNF_C4; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 FT NON_TER
 SQ SEQUENCE 333 AA; 38536 MW; B36A778B710B790 CRC64;
 Query Match 93.7%; Score 1285; DB 13; Length 333;
 Best Local Similarity 93.4%; Pred. No. 1.4e-113;
 Matches 229; Conservative 12; Mismatches 5; Indels 0; Gaps 0;
 QY 5 IEGYECOPIFLNVLAIEPGVVCAGHNNQPDSPFALLSSINELGERQLVHVVKAKALP 64
 DB 78 IGYECOPIFLNVLAIEPGVVCAGHNNQPDSPFALLSSINELGERQLVHVVKAKALP 137
 QY 65 GRNRLHVDQNAVIOYSMGLMVFAMGWSFTNVNSRMLYFAPDLVFNRYMKSRSYQ 124
 DB 138 GRNRLHVDQNAVIOYSMGLMVFAMGWSFTNVNSRMLYFAPDLVFNRYMKSRSYQ 197
 QY 125 CYRMRLHSDQFVGLQITPQFLCKALLPSIIPVGLKNKCFDELRMNYIKELDRITA 184
 DB 198 CTRMRLHSDQFVGLQITPQFLCKALLPSIIPVGLKNKCFDELRMNYIKELDRITA 257
 QY 185 CRRKNPTSCSRPFYQITKLDVQPIARELHOFPTDLLIKSHMVSVDPEMAEIIISVQV 244
 DB 258 CRRKNPTSCSRPFYQITKLDVQPIARELHOFPTDLLIKSHMVSVDPEMAEIIISVQV 317
 QY 245 PKILSGKVPYIHQ 260
 DB 318 PKILSGKVPYIHQ 333
 RESULT 7
 P70048 PRELIMINARY; PRT; 790 AA.
 ID P70048
 AC P70048;
 DT 01-FEB-1997 (TrEMBLrel. 02, Created)
 DT 01-JAN-1999 (TrEMBLrel. 09, Last sequence update)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 DE Androgen receptor alpha isoform.
 GN XL ALPHA AR.
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
 OC Xenopodidae; Xenopus.
 OX NCBI_TaxID=8355;
 RN
 RP SEQUENCE FROM N.A.
 RX MEDLINE=93376782; PubMed=7690145;
 RA Fischer L., Catz D., Kelley D.;
 RT "An androgen receptor mRNA isoform associated with hormone-induced

RT cell proliferation.";
 RL Proc. Natl. Acad. Sci. U.S.A. 90:8254-8258(1993).
 RN
 RP SEQUENCE FROM N.A.
 RX MEDLINE=95324753; PubMed=7601302;
 RA Fischer L.M., Catz D., Kelley D.B.;
 RT "Androgen-directed development of the Xenopus laevis larynx: control
 RT of androgen receptor expression and tissue differentiation.";
 RL Dev. Biol. 170:115-126(1995).
 RN
 RP SEQUENCE FROM N.A.
 RA Kelley D.B., Kamenetz F.R., Kelley D.B., Badea T.C.;
 RT Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY)
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL; U67129; AAC97386.1; -
 DR HSP; P06536; IGDC.
 DR InterPro; IPR001103; Andrgn_receptor.
 DR InterPro; IPR000536; Hormone_rec_1lg.
 DR InterPro; IPR001628; Znf_C4steroid.
 DR Pfam; PF02166; Androgen_recip; 1.
 DR Pfam; PF00104; hormone_rec; 1.
 DR Pfam; PF00105; ZF-C4; 1.
 DR PRINTS; PR00047; STROIDPINGER.
 DR ProDom; PD000035; Znf_C4steroid; 1.
 DR SMART; SM00430; HOL1; 1.
 DR SMART; SM00399; ZNF_C4; 1.
 DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 790 AA; 86973 MW; 9E7FCL36CCCG3906 CRC64;
 Query Match 89.3%; Score 1224; DB 13; Length 790;
 Best Local Similarity 88.4%; Pred. No. 2.4e-107;
 Matches 228; Conservative 15; Mismatches 15; Indels 0; Gaps 0;
 QY 1 GSHMIEGYECOPIFLNVLAIEPGVVCAGHNNQPDSPFALLSSINELGERQLVHVVKMA 60
 DB 531 GIPQLEGISCPIFLNVLAIEPGVVCAGHNNQPDSPFALLSSINELGERQLVHVVKMA 590
 QY 61 KALPGFRLHVDQNAVIOYSMGLMVFAMGWSFTNVNSRMLYFAPDLVFNRYMKSRS 120
 DB 591 KALPGFRLHVDQNAVIOYSMGLMVFAMGWSFTNVNSRMLYFAPDLVFNRYMKSRS 650
 QY 121 MYSQCVRLHLSOERGMQITPQFLCKALLPSIIPVGLKNKCFDELRMNYIKELD 180
 DB 651 MYSQCVRLHLSOERGMQITPQFLCKALLPSIIPVGLKNKCFDELRMNYIKELD 710
 QY 181 RIACKRKNPTSCSRPFYQITKLDVQPIARELHOFPTDLLIKSHMVSVDPEMAEII 240
 DB 711 RIACKRKNPTSCSRPFYQITKLDVQPIARELHOFPTDLLIKSHMVSVDPEMAEII 770
 QY 241 SVQVPKILSGKVPYIHQ 258
 DB 771 SVQVPKILSGKVPYIHQ 788
 RESULT 8
 Q91445 PRELIMINARY; PRT; 344 AA.
 ID Q91445
 AC Q91445;
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 DE Androgen receptor (Fragment).
 GN AR.
 OS Serinus canaria (Canary).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Passeriformes; Passeridae;
 OC Fringillidae; Carduelinae; Serinus.
 OX NCBI_TaxID=9135;
 RN
 RP SEQUENCE FROM N.A.

RC TISSUE=Testis; PubMed=8299561;
 RX MEDLINE=94130808; Clayton D.F.;
 RA Nastiuk K.L.; "Seasonal and tissue-specific regulation of canary androgen receptor
 RT messenger ribonucleic acid";
 RL Endocrinology 134:640-649(1994).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 DR EMBL, L25901; AAA17402.1; -.
 DR HSSP, P06536; 1GUU.
 DR InterPro: IPR000536; Hormone_rec_11g.
 DR InterPro: IPR001723; Steroid_receptor.
 DR InterPro: IPR001628; ZnF_C4steroid.
 DR Pfam: PF00104; hormone_rec; 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00398; STRODHOMER.
 DR PRINTS: PR00047; STROIDFINGER.
 DR ProDom: PD000035; ZnF_C4steroid; 1.
 DR SMART: SM00430; HOL1; 1.
 DR SMART: SM00399; ZnF_C4; 1.
 DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 FT NON_TER 1 1
 FT SEQUENCE 344 AA; 39376 MW; 713676394FC0B030 CRC64;

Query Match 88.8%; Score 1217; DB 13; Length 344;
 Best Local Similarity 92.7%; Pred. No. 4e-107; Indels 0; Gaps 0;
 Matches 227; Conservative 13; Mismatches 5;

QY 5 IEGYECOPIFLVNLAIEPGVVCAGHDNNOFSPFALLSLNLSLGEROLVHVYKAKALP 64
 Db 100 IGYECOPIFLVNLAIEPGVVCAGHDNNOFSPFALLSLNLSLGEROLVHVYKAKALP 159
 QY 65 GRRNLHVDQMAVIOYSNMGMLVFPAMGWSFTVNSRMLYFAPDLVFENYRHKSRM 124
 Db 160 GRRNLHVDQMAVIOYSNMGMLVFPAMGWSFTVNSRMLYFAPDLVFENYRHKSRM 219
 QY 125 CVRMRLHSDQFGMLQITPOEFLCKMALLFSIIPVGLKNOKFPDELNNYIKELDRITA 184
 Db 220 CTRMRLHSDQFGMLQITPOEFLCKMALLFSIIPVGLKNOKFPDELNNYIKELDRITA 279
 QY 185 CRRKPTSCSRPFYQITKLDSVQPIARIELHOFPTDLLIKSHVSVDPFEMMAEIIISVQV 244
 Db 280 CRRKPTSCSRPFYQITKLDSVQPIARIELHOFPTDLLIKSHVSVDPFEMMAEIIISVQV 339
 QY 245 PKILS 249
 Db 340 PKILS 344

RESULT 9
 097684 PRELIMINARY; PRT; 303 AA.

AC 097684;
 DT 01-MAY-1999 (TREMBLrel. 10, Created)
 DT 01-MAY-1999 (TREMBLrel. 10, Last sequence update)
 DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
 DE Androgen receptor (Fragment).
 OS Ovis aries (Sheep).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Caprinae; Ovis.
 NCBI_TaxID=9940;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Dorset;
 RA Thomney M.L.; Ignocz G.; Richards H.M.;
 RL Submitted (NOV-1998) to the EMBL/Genbank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL, AF105713; AAC97958.1; -.

DR HSSP, P06536; 1GUU.
 DR InterPro: IPR000536; Hormone_rec_11g.
 DR InterPro: IPR001723; Steroid_receptor.
 DR InterPro: IPR001628; ZnF_C4steroid.
 DR Pfam: PF00104; hormone_rec; 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00398; STRODHOMER.
 DR PRINTS: PR00047; STROIDFINGER.
 DR ProDom: PD000035; ZnF_C4steroid; 1.
 DR SMART: SM00430; HOL1; 1.
 DR SMART: SM00399; ZnF_C4; 1.
 DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 FT NON_TER 1 1
 FT SEQUENCE 303 AA; 34673 MW; D14D3950C7DC69D1 CRC64;

Query Match 77.4%; Score 1061.5; DB 6; Length 303;
 Best Local Similarity 99.5%; Pred. No. 1.9e-92;
 Matches 201; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIBGYECOPIFLVNLAIEPGVVCAGHDNNOFSPFALLSLNLSLGEROLVHVYKAK 61
 Db 103 SH-IEGYECOPIFLVNLAIEPGVVCAGHDNNOFSPFALLSLNLSLGEROLVHVYKAK 161
 QY 62 ALPGFRNLHVDQMAVIOYSNMGMLVFPAMGWSFTVNSRMLYFAPDLVFENYRHKSRM 121
 Db 162 ALPGFRNLHVDQMAVIOYSNMGMLVFPAMGWSFTVNSRMLYFAPDLVFENYRHKSRM 221
 QY 122 YSQCVRMRLHSDQFGMLQITPOEFLCKMALLFSIIPVGLKNOKFPDELNNYIKELDR 181
 Db 222 YSQCVRMRLHSDQFGMLQITPOEFLCKMALLFSIIPVGLKNOKFPDELNNYIKELDR 281
 QY 182 IICRRKPTSCSRPFYQITKL 203
 Db 282 IICRRKPTSCSRPFYQITKL 303

RESULT 10
 093245 PRELIMINARY; PRT; 853 AA.

AC 093245;
 DT 01-NOV-1998 (TREMBLrel. 08, Created)
 DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
 DE Androgen receptor beta.
 GN AR-BETA.
 OS Oncorhynchus mykiss (Rainbow trout) (Salmo gairdneri).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
 OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
 NCBI_TaxID=8022;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=99150354; PubMed=10026186;
 RA Takeo J.; Yamashita S.;
 RT "Two distinct isoforms of cDNA encoding rainbow trout androgen
 RT receptors";
 RL J. Biol. Chem. 274:5674-5680(1999).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL, AB012096; BA32785.1; -.
 DR HSSP, P06536; 1GDC.
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec_11g.
 DR InterPro: IPR001723; Steroid_receptor.
 DR InterPro: IPR001628; ZnF_C4steroid.
 DR Pfam: PF00166; Androgen_recep; 1.
 DR Pfam: PF00104; hormone_rec; 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS: PR00398; STRODHOMER.
 DR PRINTS: PR00047; STROIDFINGER.
 DR ProDom: PD000035; ZnF_C4steroid; 1.

DR SMART; SM00430; HOLI; 1.
 DR SMART; SM00399; ZNF_C4; 1.
 DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 853 AA; 95776 MW; 65EPF5FD3B36FAC4 CRC64;

Query Match 68.2%; Score 935; DB 13; Length 853;
 Best Local Similarity 70.4%; Pred. No. 6; 6e-80;
 Matches 178; Conservative 35; Mismatches 36; Indels 4; Gaps 2;

QY 8 YECOPFLNVLTAIEPGVVGAGHNNOPDSFALLSLNLSGROLYHVYKAKALPGFR 67
 DB 602 FHSQVFLNLTLSIEPEVNAAGHDGCPDAVLLTSLNLSGROLYHVYKAKALPGFR 661
 QY 68 NLHVDQMAVIOYSWGLVFMGWRSTNNRMLYFAPDLVFNEXYMRKSRMYSQCVR 127
 DB 662 NLHVDQMTVIOHTMGMVFMALGWRSYKNNANMLYFAPDLVFNDRHMLISMYHCVCQ 721
 QY 128 MRHLSQEFGLTQTPQDFLCMKALLFSIIIPVDGLKNOKFPDELKMYIKELDRITACKR 187
 DB 722 MRHLSQDFVLLQVTOEFLCMKALLFSIIPVDGLSKQKFDLRLTYINELDRVINYGR 781
 QY 188 KNPTSCRRFYOLTFLDSVQPIARELHOFTFDLLIKSHWV--SYDPEPMARITISVOVP 245
 DB 782 K--TNCARFOQLRLMDSLQPIVRKLOFTFDLPVQARSLPTKVSPEMTAIIISVOVP 839
 QY 246 KILSGKVPRIYFH 258
 DB 840 KILAGLAKPILFH 852

RESULT 11

Q8QFV2 PRELIMINARY; PRT; 839 AA.

AC Q8QFV2; 08QFV2;
 DT 01-JUN-2002 (TREMBLrel. 21, Created)
 DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
 DE Androgen receptor.
 GN AR.
 OS Carassius auratus (Goldfish).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Carassius.
 OC NCBI_TaxID=7957;
 RX [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RA Betka M., Rothberg S.C., Callard G.V.;
 RT "Carassius auratus Androgen Receptor";
 RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: AY090897; AA09278.1; -
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec_119.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep. 1.
 DR Pfam: PF00104; hormone_rec. 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR Prodom: PD000035; Znf_C4steroid; 1.
 DR SMART; SM00430; HOLI; 1.
 DR SMART; SM00399; ZNF_C4; 1.
 DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 839 AA; 93168 MW; A53ADC3169COBIF4 CRC64;

Query Match 67.8%; Score 930; DB 13; Length 839;
 Best Local Similarity 70.4%; Pred. No. 1; 9e-79;
 Matches 178; Conservative 35; Mismatches 36; Indels 4; Gaps 2;

QY 8 YECOPFLNVLTAIEPGVVGAGHNNOPDSFALLSLNLSGROLYHVYKAKALPGFR 67
 DB 588 FHSQVFLNLTLSIEPEVNAAGHDGCPDAVLLTSLNLSGROLYHVYKAKALPGFR 647
 QY 68 NLHVDQMAVIOYSWGLVFMGWRSTNNRMLYFAPDLVFNEXYMRKSRMYSQCVR 127
 DB 648 NLHVDQMTVIOHTMGMVFMALGWRSYKNNANMLYFAPDLVFNDRHMLISMYHCVCQ 707

QY 128 MRHLSQEFGLTQTPQDFLCMKALLFSIIIPVDGLKNOKFPDELKMYIKELDRITACKR 187
 DB 708 MRHLSQDFVLLQVTOEFLCMKALLFSIIPVDGLSKQKFDLRLTYINELDRVINYGR 767

QY 188 KNPTSCRRFYOLTFLDSVQPIARELHOFTFDLLIKSHWV--SYDPEPMARITISVOVP 245
 DB 768 K--TNCARFOQLRLMDSLQPIVRKLOFTFDLPVQARSLPTKVSPEMTAIIISVOVP 825

QY 246 KILSGKVPRIYFH 258
 DB 826 KILAGLAKPILFH 838

RESULT 12

Q93497 PRELIMINARY; PRT; 769 AA.

AC Q93497;
 DT 01-NOV-1998 (TREMBLrel. 08, Created)
 DT 01-NOV-1998 (TREMBLrel. 08, Last sequence update)
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
 DE Androgen receptor.
 OS Pagrus major (Red sea bream) (Chrysophrys major).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidae;
 OC Sparidae; Pagrus.
 OC NCBI_TaxID=143350;
 RX [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-99326178; PubMed-10395960;
 RA Tounaca K., Kinoshita M., Tokuda Y., Toyohara H., Sakaguchi M.,
 RA Yokoyama Y., Yamashita S.;
 RT "Sequence and expression of a cDNA encoding the red seabream androgen
 RT receptor";
 RL Blochim. Biophys. Acta 1450:481-485(1999).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
 DR EMBL: AB017158; BA33451.1; -
 DR HSSP; P06536; IRGD.
 DR InterPro: IPR001103; Andrgn_receptor.
 DR InterPro: IPR000536; Hormone_rec_119.
 DR InterPro: IPR001723; Sterhorm_receptor.
 DR InterPro: IPR001628; Znf_C4steroid.
 DR Pfam: PF02166; Androgen_recep. 1.
 DR Pfam: PF00104; hormone_rec. 1.
 DR Pfam: PF00105; zf-C4; 1.
 DR PRINTS; PR00398; STRODHOMONER.
 DR PRINTS; PR00047; STROIDPINGER.
 DR Prodom: PD000035; Znf_C4steroid; 1.
 DR SMART; SM00430; HOLI; 1.
 DR SMART; SM00399; ZNF_C4; 1.
 DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
 KW Transcription regulation; Zinc; Zinc-finger.
 SQ SEQUENCE 769 AA; 86081 MW; 9305C627DBR42062 CRC64;

Query Match 67.7%; Score 928; DB 13; Length 769;
 Best Local Similarity 70.8%; Pred. No. 2; 7e-79;
 Matches 179; Conservative 29; Mismatches 41; Indels 4; Gaps 2;

QY 8 YECOPFLNVLTAIEPGVVGAGHNNOPDSFALLSLNLSGROLYHVYKAKALPGFR 67
 DB 518 FHSQVFLNLTLSIEPEVNAAGHDGCPDAVLLTSLNLSGROLYHVYKAKALPGFR 577
 QY 68 NLHVDQMAVIOYSWGLVFMGWRSTNNRMLYFAPDLVFNEXYMRKSRMYSQCVR 127

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Db      578 NLAHDDDMVYIOQSHMGMVWVFGILGMRYSKVNNGMILFAPDLVNEHRMISTMYECIR 637
Qy      128 MRHSOEFGLMOTPOEFLCKKALLFSIIPVDGLKNQKFFDELRLMYIKELRIACKR 187
Db      638 MRHSOEFLLQITQEBFLCKKALLFSIIPVEIKSKQKFDDELRLMYIKELRIACKR 697
Qy      188 KNPTSCRRFRYQLTKLDSVOPILARELHOFTFDLLIKSHNV--SVDPENMAELISVOVP 245
Db      698 N--TNCQRFYQLTFLRLDSIQMTVKLHQFTFDLFOAQSILPTKVSPEMIGELISVHP 755
Qy      246 KIISGRKVPYFH 258
Db      756 KIISGRKVPYFH 768

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RESULT 13

Q9PMG5

ID O9PMG5 PRELIMINARY; PRT; 797 AA.

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AC O9PMG5 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Androgen receptor-beta.
GN AR-BETA.
OS Anguilla japonica (Japanese eel).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Anguilliformes; Anguillidae;
OC Anguilla.
OX NCBI_Taxid=7937;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=99395076; Pubmed=10464240;
RT Ikeuchi T., Todo T., Kobayashi T., Nagahama Y.;
RT "CDNA cloning of a novel androgen receptor subtype.";
RL J. Biol. Chem. 274.25205-25205(1999).
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
DR EMBL; AB025361; BAA83805.1; -.
DR HSSP; P06536; IGDG.
DR InterPro; IPR001103; Andrgn_receptor.
DR InterPro; IPR000536; Hormone_rec_1lg.
DR InterPro; IPR001723; Sterhmr_receptor.
DR InterPro; IPR001628; Znf_C4steroid.
DR Pfam; PF02166; Androgen_recep. 1.
DR Pfam; PF00104; hormone_rec. 1.
DR Pfam; PF00105; zf-C4; 1.
DR PRINTS; PR00398; STRDHOMONER.
DR PRINTS; PR00047; STROIDPTNGER.
DR ProDom; PD000035; Znf_C4steroid; 1.
DR SMART; SM00430; HOL1; 1.
DR SMART; SM00399; Znf_C4; 1.
DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
KW Transcription regulation; Zinc; Zinc-finger.
SQ SEQUENCE 797 AA; 89924 MW; CFIDSP21BBA5691 CRC64;

```

Query Match 67.5%; Score 925; DB 13; Length 797;

Best Local Similarity 69.2%; Pred. No. 5.4e-79;

Matches 175; Conservative 35; Mismatches 39; Indels 4; Gaps 2;

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Qy      8 YECOPIFLNVLEAIEPGVVCAGHNNQPSFALISLNLGEROLVHYVYKAKALPGFR 67
Db      546 PFTQGVFLNILESIEPRVYVNAHDYQGDSDATLITSLNELGEROLFKVYKAKALPGFR 605
Qy      68 NLAHDDDMVYIOQSHMGMVWVFGILGMRYSKVNNGMILFAPDLVNEHRMISTMYECIR 127
Db      606 NLAHDDDMVYIOQSHMGMVWVFGILGMRYSKVNNGMILFAPDLVNEHRMISTMYECIR 665
Qy      128 MRHSOEFGLMOTPOEFLCKKALLFSIIPVDGLKNQKFFDELRLMYIKELRIACKR 187
Db      666 MRHSOEFLLQITQEBFLCKKALLFSIIPVEIKSKQKFDDELRLMYIKELRIACKR 725

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Qy      188 KNPTSCRRFRYQLTKLDSVOPILARELHOFTFDLLIKSHNV--SVDPENMAELISVOVP 245
Db      726 K--TNCQRFYQLTFLRLDSIQMTVKLHQFTFDLFOAQSILPTKVSPEMIGELISVHP 783
Qy      246 KIISGRKVPYFH 258
Db      784 KIISGRKVPYFH 796

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RESULT 14

Q9DDJ4

ID Q9DDJ4 PRELIMINARY; PRT; 563 AA.

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AC Q9DDJ4 01-MAR-2001 (TREMBLrel. 16, Created)
DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Androgen receptor (Fragment).
GN AR.
OS Halichoeres trimaculatus (Three-spot wrasse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Labridae; Halichoeres.
OX NCBI_Taxid=147232;
RN [1]
RP SEQUENCE FROM N.A.
RC klm S.J., Ket O., Takemura A., Nakamura M.;
RT Partial sequence and expression of androgen and estrogen receptor
RT genes in the protogynous wrasse, Halichoeres trimaculatus.
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
DR EMBL; AF326200; AAG48340.1; -.
DR HSSP; P06536; IRGD.
DR InterPro; IPR000536; Hormone_rec_1lg.
DR InterPro; IPR001723; Sterhmr_receptor.
DR InterPro; IPR001628; Znf_C4steroid.
DR Pfam; PF00104; hormone_rec. 1.
DR Pfam; PF00105; zf-C4; 1.
DR PRINTS; PR00398; STRDHOMONER.
DR PRINTS; PR00047; STROIDPTNGER.
DR ProDom; PD000035; Znf_C4steroid; 1.
DR SMART; SM00430; HOL1; 1.
DR SMART; SM00399; Znf_C4; 1.
DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
DR DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription;
KW Transcription regulation; Zinc; Zinc-finger.
FT NON TER 1
SQ SEQUENCE 563 AA; 64352 MW; A744C3728F004A6 CRC64;

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Query Match 66.4%; Score 911; DB 13; Length 563;

Best Local Similarity 69.6%; Pred. No. 7.5e-78;

Matches 176; Conservative 31; Mismatches 42; Indels 4; Gaps 2;

```

Qy      8 YECOPIFLNVLEAIEPGVVCAGHNNQPSFALISLNLGEROLVHYVYKAKALPGFR 67
Db      312 PNTQAFNLILESIEPRVYVNAHDYQGDSDATLITSLNELGEROLFKVYKAKALPGFR 371
Qy      68 NLAHDDDMVYIOQSHMGMVWVFGILGMRYSKVNNGMILFAPDLVNEHRMISTMYECIR 127
Db      372 NLAHDDDMVYIOQSHMGMVWVFGILGMRYSKVNNGMILFAPDLVNEHRMISTMYECIR 431
Qy      128 MRHSOEFGLMOTPOEFLCKKALLFSIIPVDGLKNQKFFDELRLMYIKELRIACKR 187
Db      432 MRHSOEFLLQITQEBFLCKKALLFSIIPVEIKSKQKFDDELRLMYIKELRIACKR 491
Qy      188 KNPTSCRRFRYQLTKLDSVOPILARELHOFTFDLLIKSHNV--SVDPENMAELISVOVP 245
Db      492 K--TNCQRFYQLTFLRLDSIQMTVKLHQFTFDLFOAQSILPTKVSPEMIGELISVHP 549
Qy      246 KIISGRKVPYFH 258

```


DB 550 KILAGLAKPILFH 562

RESULT 15

09YGV9 PRELIMINARY; PRT; 848 AA.

AC 09YGV9; 01-MAY-1999 (TRENBLREL. 10, Created)

DT 01-MAY-1999 (TRENBLREL. 10, Last sequence update)

DT 01-MAY-2003 (TRENBLREL. 23, Last annotation update)

DE Androgen receptor alpha.

OS Anguilla japonica (Japanese eel).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Anguilliformes; Anguillidae; Anguilla.

OC NCBI_TaxID=7937;

OX [1]

RN SEQUENCE FROM N.A.

RP TISSUE=Testis;

RC MEDLINE=99119319; PubMed=9918846;

RX Todo T., Ikenuchi T., Kobayashi T., Nagahama Y.,

RA "Fish androgen receptor: cDNA cloning, steroid activation of

RT transcription in transfected mammalian cells, and tissue mRNA

RT levels."

RL Biochem. Biophys. Res. Commun. 254:378-383(1999).

CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

CC -1- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.

DR EMBL; AB023960; BAA75464.1; -.

DR HSSP; P06536; IGDC.

DR InterPro; IPR001103; Andrgn_receptor.

DR InterPro; IPR000536; Hormone_rec_11g.

DR InterPro; IPR001723; Sterhmn_receptor.

DR InterPro; IPR001628; Znf_Csteroi.

DR Pfam; PF02166; Androgen_recep; 1.

DR Pfam; PF00105; zf-C4; 1.

DR PRINTS; PR00398; STRDHOMONER.

DR PRODOM; PD000035; Znf_Csteroi; 1.

DR PRINTS; PR00047; STROLDPRINGER.

DR SMART; SM00430; HOL1; 1.

DR SMART; SM00399; ZNF_C4; 1.

DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.

KW DNA-binding; Metal-binding; Nuclear protein; Receptor; Transcription; Transcription regulation; Zinc; Zinc-finger.

KW SEQUENCE 848 AA; 94692 MW; A8889AF7F2E50D3E CRC64;

Query Match. 66.3%; Score 909; DB 13; Length 848;
Best Local Similarity 68.5%; Pred. No. 1.9e-77;
Matches 174; Conservative 36; Mismatches 40; Indels 4; Gaps 2;

QY 7 GYECPIPLNVLIAIPGVVCAQHNNQDSPAALLSSINELGERQLVHVTKMAKALPGF 66
DB 596 GPHQSMFINILIAIEPEVYVNAHGYQGPDSAAISLTSLNELGERQLVHVTKMAKMPGF 655
QY 67 RLHAYDDQMAVVOYGMGMVAFAMGWRSTNNSRLVAPDLVFNEXYRMHKSRYSCV 126
DB 656 RSLYVDDQMTVIOHSMMAVPAFGMRSPKXYSRLYFAPDLVFNEXHMOVSTMEHCI 715
QY 127 RRRHLSOERGMLOITPOEFLCKKALLPSIIPVDGLKNOKFFDELPMNYIKELDRIIACK 186
DB 716 RHKNSQSEFAMLOVQSEFLCKKALLPSITIVPEGLKGNFDELARSYINELDLVSPR 775
QY 187 RKNPTSCSRRFQTLKLDVSPVPIARELHOFTEFLIKSHMYS--VDPPEMAEILISVQV 244
DB 776 SK--SSCSRFQTLRLDLSLPVLKQLQFTEFLVQSONISNOVCEPEMISRIISVHV 833
QY 245 PRLSGKVPIYFH 258
DB 834 PKILAGTVKPILFH 847

Search completed: October 9, 2003, 11:42:15
Job time : 39 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:39:08 ; Search time 11 Seconds

(without alignments)
1111.540 Million cell updates/sec

Title: US-09-687-609a-1
Sequence: 1 GSHMIEGYECQIFLNVLEA.....SVQVPRKILSGKVKPIYFPHQ 260

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 segs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1349.5	98.4	709	1	ANDR_RABIT
2	1349.5	98.4	884	1	ANDR_EULFC
3	1349.5	98.4	895	1	ANDR_MACFA
4	1349.5	98.4	895	1	ANDR_PAPHA
5	1349.5	98.4	899	1	ANDR_MOUSE
6	1349.5	98.4	902	1	ANDR_RAT
7	1349.5	98.4	907	1	ANDR_CANFA
8	1349.5	98.4	911	1	ANDR_PANTR
9	1349.5	98.4	919	1	ANDR_HUMAN
10	766	55.9	930	1	PRGR_RABIT
11	765	55.8	933	1	PRGR_HUMAN
12	759	55.4	923	1	PRGR_RAT
13	758	55.3	923	1	PRGR_MOUSE
14	752	55.9	786	1	PRGR_CHICK
15	738	53.8	377	1	PRGR_SHEEP
16	677.5	49.4	359	1	MCR_ONCOMY
17	666	48.6	978	1	MCR_MOUSE
18	665	48.5	984	1	MCR_HUMAN
19	664.5	48.5	777	1	GCR_AOTNA
20	664.5	48.5	777	1	GCR_SAIIB
21	664.5	48.5	778	1	GCR_SAIISC
22	662.5	48.3	777	1	GCR_HUMAN
23	662	48.3	981	1	MCR_RAT
24	662	48.3	982	1	MCR_SAIISC
25	661.5	48.2	777	1	GCR_SAIISC
26	660.5	48.2	772	1	GCR_RABIT
27	660	48.1	612	1	MCR_XENIA
28	657.5	48.0	783	1	GCR_MOUSE
29	653.5	47.6	776	1	GCR_TUPGB
30	651.5	47.5	807	1	GCR_PAROL
31	650.5	47.4	776	1	GCR_XENIA
32	648.5	47.3	758	1	GCR_ONCMY
33	644.5	47.0	771	1	GCR_CAVPO

34	638.5	46.6	795	1	GCR_RAT	P06536	rattus norv
35	615	44.9	977	1	MCR_TUPGB	O29131	tupaia glis
36	590	43.0	258	1	GCR_SHEEP	O9bdj7	ovis aries
37	580	42.3	711	1	MCR_PIG	O9nlus	sus scrofa
38	591	28.5	164	1	MCR_PIG	P79404	sus scrofa
39	387	28.2	180	1	PRGR_MACRU	P79373	macropus eu
40	342	24.9	147	1	MCR_CHICK	O8gh12	gallus gall
41	237	17.3	569	1	ESR1_BRARE	P57717	brachydonto
42	228.5	16.7	581	1	ESR1_PAGMA	O42132	pagrus majo
43	227.5	16.6	617	1	ESR1_ICTPU	O9yhz7	ictalurus p
44	223	16.3	307	1	ESR1_CNEON	O91424	cnemidophor
45	222	16.2	535	1	ESR1_SALSA	P50242	salmo salar

ALIGNMENTS

RESULT 1
ANDR_RABIT
ID ANDR_RABIT STANDARD; PRT: 709 AA.
AC P49659; 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 30-MAY-2000 (Rel. 39, Last annotation update)
DE Androgen receptor (Dihydrotestosterone receptor) (Fragment).
GN AR OR NR3C4.
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
OX NCBI_TaxID=9986;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=New Zealand white; TISSUE=Prostate;
RX MEDLINE=9604463; PubMed=7559153;
RA Krongrad A., Wilson J.D., McPhaul M.J.,
RT "Cloning and partial sequence of the rabbit androgen receptor:
RT expression in fetal urogenital tissues.",
RL J. Androl. 16:209-212(1995).
RT
CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
CC -1- SUBCELLULAR LOCATION: Nuclear.
CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
CC subfamily.
CC
CC -----
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CC -----
CC EMBL: U16366; AAC46469.1; -
CC HSSP: P06536; 1GDC.
CC InterPro: IPR001103; Andrgn_receptor.
CC InterPro: IPR000536; Hormone_rec_1lg.
CC InterPro: IPR001628; Znf_C4steroid.
CC Pfam: PF02166; Androgen_recep. 1.
CC Pfam: PF00104; hormone_rec. 1.
CC Pfam: PF00105; zf-C4; 1.
CC PRINTS: PR00047; STROIDFINGER.
CC PRODOM: PD000035; Znf_C4steroid; 1.
CC SMART: SM00430; HOL1; 1.
CC SMART: SM00399; Znf_C4; 1.
CC PROSITE: PS00031; NUCLEAR_RECEPTOR; 1.
CC Receptor; Transcription regulation; DNA-binding; Nuclear protein;
CC Zinc-finger; Steroid-binding.
CC NON_TER 1
CC FT DOMAIN <1 347 MODULATING.
FT DNA_BIND 349 414 NUCLEAR RECEPTOR-TYPE.

FT	ZN_FING.	349	369	C4-TYPE.
FT	ZN_FING.	385	409	C4-TYPE.
FT	DOMAIN	480	709	LIGAND-BINDING.
FT	DOMAIN	3	6	POLY-GLN.
FT	DOMAIN	182	187	POLY-PRO.
FT	DOMAIN	201	207	POLY-ALA.
FT	DOMAIN	254	262	POLY-GLY.
SQ	SEQUENCE	709 AA;	77391 MM;	40E7666137E97B6B CRC64;

Query Match	98.4%;	Score 1349.5;	DB 1;	Length 709;
Best Local Similarity	99.6%;	Freqd. No. 2.4e-116;		
Matches 258;	Conservative 0;	Mismatches 0;	Indels 1;	Gaps 1.

Dy	2	SHMIEGECOPIFPLNVLEAIPGVVCAGHNNQPDPSPALLSSINLEGEROLVHYVKAK	61
Dy	452	SH-IEGRCOPIFLNVLEAIPGVVCAGHNNQPDPSPALLSSINLEGEROLVHYVKAX	510
Dy	62	ALPGRNLAVDDOMAVIOYSNWGLVFPMGRSPTFNVSRLTYFADLVFNEMKSRM	121
Dy	511	ALPGRNLAVDDOMAVIOYSNWGLVFPMGRSPTFNVSRLTYFADLVFNEMKSRM	570
Dy	122	YSOCVRMRHLSORSGWLOITPOEFCKMALILFSIIPDGLKNOKFPDELANNYIKELDR	181
Dy	571	YSOCVRMRHLSORSGWLOITPOEFCKMALILFSIIPDGLKNOKFPDELANNYIKELDR	630
Dy	182	IACKRNKPTSCSRFFYLTKLLSDVPDIARELHOFTDLIKSHMSVDPEMMARIS	241
Dy	631	IACKRNKPTSCSRFFYLTKLLSDVPDIARELHOFTDLIKSHMSVDPEMMARIS	690
Dy	242	VQPKILSGKKPYFHQTQ 260	
Dy	691	VQPKILSGKKPYFHQTQ 709	

RESULT 2

ID	_ANDR_EULFC	STANDARD:	PRT:	884 AA.
AC	O97776;			
DT	30-MAY-2000 (Rel. 39, Created)			
DT	30-MAY-2000 (Rel. 39, Last sequence update)			
DT	30-MAY-2000 (Rel. 39, Last annotation update)			
DE	Androgen receptor (Dihydrotestosterone receptor).			
GN	AR OR NR3C4.			
OS	Balemur fulvus collaris (Collared brown lemur).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Strepsirrhini; Lemniridae; Balemur.			
OX	NCBI_TaxId=47178;			
[1]				
RP	SEQUENCE FROM N.A.			
RX	MEDLINE=98404153; PubMed=9732460;			
RA	Choong C.S., Kempainen J.A., Wilson E.M.;			
RT	Evolution of the primate androgen receptor: a structural basis for			
RT	disease.";			
J.	Mol. Evol. 47:334-342(1998).			
-1-	FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN			
CC	THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR			
CC	PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.			
CC	-1- SUBCELLULAR LOCATION: Nuclear.			
CC	-1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,			
CC	A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.			
CC	-1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3			
CC	subfamily.			

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EMBL:	U94178;	ACC73049.1;	--
HSSP:	P06536;	IGDC.	

DR	TRANSFAC; T04655; -
DR	InterPro; IPR001103; Androgen receptor.
DR	InterPro; IPR000536; Hormone_rec_lig.
DR	InterPro; IPR001723; Sterhorm_receptor.
DR	InterPro; IPR001628; ZnF_CsteroId.
DR	Pfam; PF02166; Androgen_recip_1.
DR	Pfam; PF0104; hormone_rec_1.
DR	Pfam; PF00105; zf-C4_1.
DR	PRINTS; PR00398; STEROHORMONER.
DR	PRINTS; PR00047; STEROIDRINGER.
DR	PRODOM; PD000035; ZnF_CsteroId; 1.
DR	SMART; SMO0430; HOL1; 1.
DR	SMART; SMO0399; ZnF_C4_1.
DR	PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
KW	Receptor; Transcription regulation; DNA-binding; Nuclear protein;
RK	Zinc-finger; Steroid-binding.
FT	DNA_BIND 1 522 MODULATING (BY SIMILARITY).
FT	NZM_BIND 524 589 NUCLEAR RECEPTOR-TYPE.
FT	ZN_FING 524 544 C4-TYPE.
FT	ZN_FING 560 584 C4-TYPE.
FT	DOMAIN 655 884 LIGAND-BINDING.
FT	DOMAIN 55 58 POLY-GLN.
FT	DOMAIN 64 70 POLY-GLN.
FT	DOMAIN 116 120 POLY-ALA.
FT	DOMAIN 174 178 POLY-GLN.
FT	DOMAIN 353 362 POLY-PRO.
FT	DOMAIN 379 383 POLY-ALA.
FT	DOMAIN 408 411 POLY-ALA.
FT	DOMAIN 430 435 POLY-GLY.
SO	SEQUENCE 884 AA; 95610 MM; 18F570E352FAD2BD CRC64;
<hr/>	
Query Match	98.4%; Score 1349.5; DB 1; Length 884;
Best Local Similarity	99.6%; Pred. No. 3.1e-118;
Matches 258; Conservative	0; Mismatches 0; Indels 1; Gaps 1.
<hr/>	
Qy	2 SHMEGREGCPPIFLNTVLEAIPBGVCAGHDNDPSFALLSLINBEIGEROLVHVVKAK 61
Db	627 SH-IEGEGCQPIFLNTVLEAIPBGVCAGHDNDPSFALLSLINBEIGEROLVHVVKAK 685
Qy	62 ALPGFRMLHYDDQMAVIQYSWMGLMVFAWGRRSFPTNNSRLLYAPDLVFENEYRWKSKRM 121
Db	686 ALPGFRMLHYDDQMAVIQYSWMGLMVFAWGRRSFPTNNSRRLYAPDVLVFNERYWKSKRM 745
Qy	122 YSGCVRRRHLSOERGWLQITPQEPFLCKALLIFSIIVYDGKNOKFPDELMNYIKELDR 181
Db	746 YSGCVRRRHLSOERGWLQITPQEPFLCKALLIFSIIVPDGKNOKFPDELMMNYIKELDR 805
Qy	182 IIAICKRNKPTSCSRRFQTLTKLDSVOPIARELHQFTFDLLIKSHMYSDPEPMABARIIS 241
Db	806 IIAICKRNKPTSCSRRFQTLTKLDSVOPIARELHQFTFDLLIKSHMYSDPEPMABARIIS 865
Qy	242 VQVPKLIISGVKKPIYFHTQ 260
Db	866 VQVPKLIISGVKKPIYFHTQ 884
<hr/>	
RESULT 3	
ANDR_MACEFA	STANDARD; PRT; 895 AA.
ID ANDR_MACEFA	
AC 097952;	
DT 30-MAY-2000 (Rel. 39, Created)	
DT 30-MAY-2000 (Rel. 39, Last sequence update)	
DT 30-MAY-2000 (Rel. 39, Last annotation update)	
DB Androgen receptor (Dihydrotestosterone receptor).	
GN AR OR NR3C4.	
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).	
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;	
OC Cercopithecinae; Macaca.	
OX NCBI_Taxid=9541;	
RN [1]	
RP SEQUENCE FROM N.A.	
FX MEDLINE=98404153; PubMed=9732460;	

RA Choong C.S., Kempainen J.A., Wilson B.M.;
 RT "Evolution of the primate androgen receptor: a structural basis for
 RT disease.";
 RL J. Mol. Evol. 47:334-342(1998).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC -----
 CC EMBL; U94179; AAC73050.1; -
 CC HSSP; P06536; IGDC.
 CC TRANSFAC; T04654; -
 CC InterPro; IPR001103; Andrgn_receptor.
 CC InterPro; IPR000536; Hormone_rec_1lg.
 CC InterPro; IPR001628; Znf_C4steroid.
 CC Pfam; PF02166; Androgen_Recep; 1.
 CC Pfam; PF00104; hormone_rec; 1.
 CC Pfam; PF00105; zf-C4; 1.
 CC PRINTS; PR00047; STEROIDINGER.
 CC PRODOM; PD000035; Znf_C4steroid; 1.
 CC SMART; SM00430; HOL1; 1.
 CC SMART; SM00399; ZNF_C4; 1.
 CC PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 CC Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 CC Zinc-finger; Steroid-binding.
 CC MODULATING (BY SIMILARITY).
 CC NUCLEAR RECEPTOR-TYPE.
 CC C4-TYPE.
 CC C4-TYPE.
 CC LIGAND-BINDING.
 CC POLY-GLN.
 CC POLY-GLN.
 CC POLY-GLN.
 CC POLY-PRO.
 CC POLY-ALA.
 CC POLY-GLY.
 CC SEQUENCE 895 AA; 96494 MW; A3B17916F43A097 CRC64;
 SQ
 Query Match 98.4%; Score 1349.5; DB 1; Length 895;
 Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMIEGECOPIFLAVLAEIRGVVCAQHNDNPPSPALLSLNLEGEROLVHVYKAK 61
 Db 638 SH-IEGYECQPIFLAVLAEIRGVVCAQHNDNPPSPALLSLNLEGEROLVHVYKAK 696
 QY 62 ALPGFRNLAVDDQNAVIOYMWGLVWPAWGMSFTNVNSRMLYFAPDLVFNERYMKSRM 121
 Db 697 ALPGFRNLAVDDQNAVIOYMWGLVWPAWGMSFTNVNSRMLYFAPDLVFNERYMKSRM 756
 QY 122 YSQCVRHMLSOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQCFPELKNVYKELDR 181
 Db 757 YSQCVRHMLSOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQCFPELKNVYKELDR 816
 QY 182 IIAKCRKNPTSCSRFYQITKLDSVQPIARELHOFTEFLIKSHMVSVDPENMAATIS 241
 Db 817 IIAKCRKNPTSCSRFYQITKLDSVQPIARELHOFTEFLIKSHMVSVDPENMAATIS 876
 QY 242 VQVPRKILSGKVPYIFHTQ 260
 Db 877 VQVPRKILSGKVPYIFHTQ 895

RESULT 4
 ID ANDR_PAPHA STANDARD; PRT; 895 AA.
 AC 097960;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 30-MAY-2000 (Rel. 39, Last annotation update)
 DE Androgen receptor (Dihydrotestosterone receptor).
 GN AR OR NR3C4.
 OS Papio hamadryas (Hamadryas baboon).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 OC Cercopithecoidea; Papio.
 OC NCBI_TaxId=9557;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98404153; PubMed=9732460;
 RA Choong C.S., Kempainen J.A., Wilson B.M.;
 RT "Evolution of the primate androgen receptor: a structural basis for
 RT disease.";
 RL J. Mol. Evol. 47:334-342(1998).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
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 CC -----
 CC EMBL; U94176; AAC73047.1; -
 CC HSSP; P06536; IGDC.
 CC TRANSFAC; T04652; -
 CC InterPro; IPR001103; Andrgn_receptor.
 CC InterPro; IPR000536; Hormone_rec_1lg.
 CC InterPro; IPR001628; Znf_C4steroid.
 CC Pfam; PF02166; Androgen_Recep; 1.
 CC Pfam; PF00104; hormone_rec; 1.
 CC Pfam; PF00105; zf-C4; 1.
 CC PRINTS; PR00047; STEROIDINGER.
 CC PRODOM; PD000035; Znf_C4steroid; 1.
 CC SMART; SM00430; HOL1; 1.
 CC SMART; SM00399; ZNF_C4; 1.
 CC PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 CC Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 CC Zinc-finger; Steroid-binding.
 CC MODULATING (BY SIMILARITY).
 CC NUCLEAR RECEPTOR-TYPE.
 CC C4-TYPE.
 CC C4-TYPE.
 CC LIGAND-BINDING.
 CC POLY-GLN.
 CC POLY-GLN.
 CC POLY-GLN.
 CC POLY-PRO.
 CC POLY-ALA.
 CC POLY-GLY.
 CC SEQUENCE 895 AA; 96478 MW; 9020C0DC6711B5D CRC64;
 SQ
 Query Match 98.4%; Score 1349.5; DB 1; Length 895;
 Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIGYECQPIFLNVLALRPGVCAAGHNDNPPSFAALLSSINELGEROLVHVVKAK 61
 DB 638 SH-IGYECQPIFLNVLALRPGVCAAGHNDNPPSFAALLSSINELGEROLVHVVKAK 696
 QY 62 ALPGFRNLAVDDQNAVIOYSMGMLVFMGWSFTVNSRMLYFAPDLVFNRYMHKSRM 121
 DB 697 ALPGFRNLAVDDQNAVIOYSMGMLVFMGWSFTVNSRMLYFAPDLVFNRYMHKSRM 756
 QY 122 YSQCYRMHLSQBFGLQITPOEFLCKMALLPSIIPVDGLKXNQKPFDELMMNYIKELDR 181
 DB 757 YSQCYRMHLSQBFGLQITPOEFLCKMALLPSIIPVDGLKXNQKPFDELMMNYIKELDR 816
 QY 182 IIAKCRKNPSCSRPQYQITKLLDSVOPARLHOFTPOLIKSHMVSVDPREMAAETIS 241
 DB 817 IIAKCRKNPSCSRPQYQITKLLDSVOPARLHOFTPOLIKSHMVSVDPREMAAETIS 876
 QY 242 VQVPKILSGKVKPIYFHTQ 260
 DB 877 VQVPKILSGKVKPIYFHTQ 895

RESULT 5
 ID ANDR MOUSE STANDARD; PRT; 899 AA.
 AC PI9051;
 DT 01-NOV-1990 (Rel. 16, Created)
 DT 01-NOV-1990 (Rel. 16, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Androgen receptor (Dihydrotestosterone receptor).
 GN AR OR NR3C4.
 OS Mus musculus (Mouse).
 QC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN-BALB/c;
 RA MEDLINE=9038642; PubMed=2403358;
 RA He W.W., Fischer L.M., Sun S., Bihartz D.L., Zhu X., Young C.Y.F.,
 RA Kelley D.B., Tindall D.J.;
 RA "Molecular cloning of androgen receptors from divergent species with
 RA a polymerase chain reaction technique: complete cDNA sequence of the
 RA mouse androgen receptor and isolation of androgen receptor cDNA
 RA probes from dog, guinea pig and clawed frog";
 RA Biochem. Biophys. Res. Commun. 171:697-704(1990).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=91133433; PubMed=2178222;
 RA Gaspar M.L., Meo T., Toai M.;
 RA "Structure and size distribution of the androgen receptor mRNA in
 RA wild-type and Tfm/Y mutant mice";
 RA Mol. Endocrinol. 4:1600-1610(1990).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=91354214; PubMed=1883336;
 RA Faber P.W., King A., van Rooij H.C.J., Brinkmann A.O., de Boer N.J.,
 RA Trapman J.;
 RA "The mouse androgen receptor. Functional analysis of the protein and
 RA characterization of the gene";
 RA Biochem. J. 278:269-278(1991).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=92017874; PubMed=1681426;
 RA Charest N.J., Zhou Z., Lubahn D.B., Olsen K.L., Wilson E.M.,
 RA French P.S.;
 RA "A frameshift mutation destabilizes androgen receptor messenger RNA
 RA in the Tfm mouse";
 RA Mol. Endocrinol. 5:573-581(1991).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,

CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- MISCELLANEOUS: IN THE ABSENCE OF LIGAND, STEROID HORMONE RECEPTORS
 CC ARE THOUGHT TO BE WEAKLY ASSOCIATED WITH NUCLEAR COMPONENTS;
 CC HORMONE-BINDING GREATLY INCREASES RECEPTOR AFFINITY. THE
 CC HORMONE-RECEPTOR COMPLEX APPEARS TO RECOGNIZE DISCRETE DNA
 CC SEQUENCES UPSTREAM OF TRANSCRIPTIONAL START SITES.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC or send an email to license@ebi.ac.uk).
 CC -----
 CC EMBL; S56585; AAB19916.1; -;
 CC EMBL; X53779; CAA37795.1; -;
 CC EMBL; M37890; AAA37234.1; -;
 CC EMBL; X59592; CAA42160.1; -;
 CC DR PIR; A35895; A35895.
 CC DR HSSP; P06536; 1GDC.
 CC DR TRANSPAC; T00041; -;
 CC DR MGD; MGI:88064; Ar.
 CC DR InterPro; IPR001103; Andrgn_receptor.
 CC DR InterPro; IPR000536; Hormone_rec_1lg.
 CC DR InterPro; IPR001628; Znf_CsteroiId.
 CC DR Pfam; PF02166; Androgen_recep; 1.
 CC DR Pfam; PF00104; hormone_rec; 1.
 CC DR Pfam; PF00105; ZF-C4; 1.
 CC DR PRINTS; PR00047; STEROIDFINGER.
 CC DR PRODOM; PD000035; Znf_CsteroiId; 1.
 CC DR SMART; SM00430; HOL1; 1.
 CC DR SMART; SM00339; ZNF C4; 1.
 CC DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 CC DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 CC Zinc-finger; Steroid-binding.
 CC KW DOMAIN 1 537 MODULATING (BY SIMILARITY).
 CC FT DNA BIND 539 604 NUCLEAR RECEPTOR-TYPE.
 CC FT ZN FING 539 559 C4-TYPE.
 CC FT ZN FING 575 599 C4-TYPE.
 CC FT DOMAIN 670 899 LIGAND-BINDING.
 CC FT DOMAIN 63 67 POLY-ARG.
 CC FT DOMAIN 174 193 POLY-GLN.
 CC FT DOMAIN 367 373 POLY-PRO.
 CC FT DOMAIN 391 397 POLY-ALA.
 CC FT DOMAIN 441 447 POLY-GLY.
 CC SQ SEQUENCE 899 AA; 98193 MW; FD9EE07C07F7A568 CRC64;
 CC -----
 CC Query Match 98.4%; Score 1349.5; DB 1; Length 899;
 CC Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 CC Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 CC -----
 CC 2 SHMIGYECQPIFLNVLALRPGVCAAGHNDNPPSFAALLSSINELGEROLVHVVKAK 61
 DB 642 SH-IGYECQPIFLNVLALRPGVCAAGHNDNPPSFAALLSSINELGEROLVHVVKAK 700
 QY 62 ALPGFRNLAVDDQNAVIOYSMGMLVFMGWSFTVNSRMLYFAPDLVFNRYMHKSRM 121
 DB 701 ALPGFRNLAVDDQNAVIOYSMGMLVFMGWSFTVNSRMLYFAPDLVFNRYMHKSRM 760
 QY 122 YSQCYRMHLSQBFGLQITPOEFLCKMALLPSIIPVDGLKXNQKPFDELMMNYIKELDR 181
 DB 761 YSQCYRMHLSQBFGLQITPOEFLCKMALLPSIIPVDGLKXNQKPFDELMMNYIKELDR 820
 QY 182 IIAKCRKNPSCSRPQYQITKLLDSVOPARLHOFTPOLIKSHMVSVDPREMAAETIS 241
 DB 821 IIAKCRKNPSCSRPQYQITKLLDSVOPARLHOFTPOLIKSHMVSVDPREMAAETIS 880
 QY 242 VQVPKILSGKVKPIYFHTQ 260
 DB 881 VQVPKILSGKVKPIYFHTQ 899

RESULT 6
 ANDR_RAT STANDARD; PRT; 902 AA.
 AC P15267; 063049; 14, Created)
 DT 01-APR-1990 (Rel. 14, last sequence update)
 DT 01-APR-1990 (Rel. 14, last sequence update)
 DT 15-SEP-2003 (Rel. 42, last annotation update)
 DE Androgen receptor (Dihydrotestosterone receptor).
 GN AR OR NR3C4.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 NCBI_TaxId=10116;
 [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=69112209; PubMed=3216867;
 RA Tan J., Joseph D.R., Quarmby V.E., Lubahn D.B., Sar M., French F.S.,
 RA Wilson E.M.;
 RT "The rat androgen receptor: primary structure, autoregulation of its
 RT messenger ribonucleic acid, and immunocytochemical localization of
 RT the receptor protein";
 RT Mol. Endocrinol. 2:1276-1285 (1988).
 RL (2)
 RN SEQUENCE FROM N.A.
 RP TISSUE=Prostate;
 RC MEDLINE=89017168; PubMed=3174628;
 RA Chang C., Kokontis J., Iiao S.;
 RT "Structural analysis of complementary DNA and amino acid sequences of
 RT human and rat androgen receptors";
 RT Proc. Natl. Acad. Sci. U.S.A. 85:7211-7215 (1988).
 RL (3)
 RN SEQUENCE FROM N.A.; AND VARIANT TFM GLN-735.
 RP MEDLINE=90256822; PubMed=2341409;
 RA Yarbrough W.G., Quarmby V.E., Simental J.A., Joseph D.R., Sar M.,
 RA Lubahn D.B., Olsen K.L., French F.S., Wilson E.M.;
 RT "A single base mutation in the androgen receptor gene causes androgen
 RT insensitivity in the testicular feminized rat";
 RT J. Biol. Chem. 265:8893-8900 (1990).
 RL (1)
 RN THE REGULATION OF THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 RP PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- TISSUE SPECIFICITY: HIGHEST LEVELS IN THE SEMINAL VESICLE,
 CC VENTRAL PROSTATE AND COAGULATING GLAND WITH LOWER LEVELS IN THE
 CC KIDNEY, AND LEVATOR ANTI MUSCLE.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- DISEASE: Defects in AR are a cause of androgen insensitivity. Rats
 CC with this syndrome are called testicular feminized (TFM).
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL, M20133; AAA40733.1; -
 CC EMBL, M23264; AAA40759.1; -
 CC EMBL, J05454; AAA40734.1; -
 CC PIR, B40494; B40494.
 CC PDB, 1137; 02-MAY-01.
 CC PDB, 1138; 02-MAY-01.
 CC TRANSPAC; T00042; -
 CC InterPro; IPR001103; Andrgn_receptor.
 CC InterPro; IPR000536; Hormone_rec_11g.
 CC InterPro; IPR001628; Znf_Csteroioid.
 CC Pfam; PF02166; Androgen_recep; 1.

DR Pfam; PF00104; hormone_rec; 1.
 DR PIR; P00105; zf-C4; 1.
 DR PRINTS; PR00047; STROIDPINGER.
 DR PRODOM; PD000035; Znf_Csteroioid; 1.
 DR SMART; SM00430; HOL1; 1.
 DR SMART; SM00399; Znf_C4; 1.
 DR PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
 KW Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 KW Zinc-finger; Steroid-binding; Disease mutation; 3D-structure.
 FT DOMAIN 1 540
 FT DNA_BIND 542 607
 FT ZN_FING 542 562
 FT ZN_FING 578 602
 FT DOMAIN 673 902
 FT DOMAIN 63 67
 FT DOMAIN 174 195
 FT DOMAIN 370 376
 FT DOMAIN 394 400
 FT DOMAIN 444 450
 FT VARIANT 735 735
 FT
 FT CONFLICT 195 195
 FT CONFLICT 389 389
 SQ SEQUENCE 902 AA; 98217 MW; 43F4064759FDCBD CRC64;
 Query Match 98.4%; Score 1349.5; DB 1; Length 902;
 Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMIGYECOPFLANVLAIRPGVVCAGHDNNQPSFALSSLNELGROLVHVYKAK 61
 DB 645 SH-IRGYCOPFLANVLAIRPGVVCAGHDNNQPSFALSSLNELGROLVHVYKAK 703
 QY 62 ALPGFRNLVDDQNAVIOYSWGLVFMGWRSPFTNVNSRLYRAPDLVFNEYRMKSRM 121
 DB 704 ALPGFRNLVDDQNAVIOYSWGLVFMGWRSPFTNVNSRLYRAPDLVFNEYRMKSRM 763
 QY 122 YSQCRMHLSQBRGMLQITPOEPLCMKALLFSTIPDGLKNGKFPBELMNTYKELDR 181
 DB 764 YSQCRMHLSQBRGMLQITPOEPLCMKALLFSTIPDGLKNGKFPBELMNTYKELDR 823
 QY 182 IIAKCRKPTSCSRFPYQTLNDSVQPIARELHQFTFDLIKSHMVSVDPEMMARIIIS 241
 DB 824 IIAKCRKPTSCSRFPYQTLNDSVQPIARELHQFTFDLIKSHMVSVDPEMMARIIIS 883
 QY 242 VQVPKILSGKVPYIFHTQ 260
 DB 884 VQVPKILSGKVPYIFHTQ 902
 RESULT 7
 ANDR_CANFA STANDARD; PRT; 907 AA.
 AC 09T750;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, last sequence update)
 DT 28-FEB-2003 (Rel. 41, last annotation update)
 DE Androgen receptor (Dihydrotestosterone receptor).
 GN AR OR NR3C4.
 OS Canis familiaris (Dog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 NCBI_TaxId=9615;
 [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=21618348; PubMed=11768233;
 RA Lu B., Smock S.L., Castleberry T.A., Owen T.A.;
 RT "Molecular cloning and functional characterization of the canine
 RT androgen receptor";
 RT Mol. Cell. Biochem. 226:129-140 (2001).
 RL (1)
 RN THE REGULATION OF THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 RP PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.

CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC -----
 CC DR EMBL; AF197950; AAF18084.1; .
 CC DR HSSP; P06536; IGDC.
 CC DR InterPro; IPR001103; Andrgn_receptor.
 CC DR InterPro; IPR000536; Hormone_rec_119.
 CC DR InterPro; IPR001628; Znf_C4steroid.
 CC DR Pfam; PF02166; Androgen_recep; 1.
 CC DR Pfam; PF00104; hormone_rec; 1.
 CC DR Pfam; PF00105; zf-C4; 1.
 CC DR PRINTS; PR00047; STROIDPINGER.
 CC DR ProDom; PD000035; Znf_C4steroid; 1.
 CC DR SMART; SM00430; HOL1; 1.
 CC DR SMART; SM00399; Znf_C4; 1.
 CC DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 CC DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 CC ZINC-finger; Steroid-binding.
 CC FM DOMAIN 1 545 MODULATING (BY SIMILARITY).
 CC FT DNA_BIND 547 612 NUCLEAR RECEPTOR-TYPE.
 CC FT ZN_FING 547 567 C4-TYPE.
 CC FT ZN_FING 583 607 LIGAND-BINDING.
 CC FT DOMAIN 678 907 POLY-GLN.
 CC FT DOMAIN 55 64 POLY-GLN.
 CC FT DOMAIN 70 76 POLY-GLN.
 CC FT DOMAIN 131 134 POLY-GLN.
 CC FT DOMAIN 180 202 POLY-GLN.
 CC FT DOMAIN 329 332 POLY-SER.
 CC FT DOMAIN 375 384 POLY-PRO.
 CC FT DOMAIN 399 405 POLY-ALA.
 CC SQ SEQUENCE 907 AA; 98726 MW; C6619F78DD2338AF CRC64;
 CC
 CC Query Match 98.4%; Score 1349.5; DB 1; Length 907;
 CC Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 CC Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 CC
 CC QY 2 SHMIEGECOPIFLNVLEAIBPGVVCAGHNNOPDSFALLSLNIEGROLVHVVKAK 61
 CC DB 650 SH-IEGYECOPIFLNVLEAIBPGVVCAGHNNOPDSFALLSLNIEGROLVHVVKAK 708
 CC QY ALPGFRNLHVDDQMAVIOYSWMGLMVFAMGWRSTFNVNSMLYFAPDLVENEYRMKSRM 121
 CC DB 709 ALPGFRNLHVDDQMAVIOYSWMGLMVFAMGWRSTFNVNSMLYFAPDLVENEYRMKSRM 768
 CC QY 122 YSQCVRRHLSQERGMQITPOEFLCKKALLSITIVDGLKQXKFPDELKMYIKELDR 181
 CC DB 769 YSQCVRRHLSQERGMQITPOEFLCKKALLSITIVDGLKQXKFPDELKMYIKELDR 828
 CC QY 182 IIAKCKRNKPTSCSRFPVQTKLDSVQPIARELHQFTEDLLISHWVSVDPPEMAEITIS 241
 CC DB 829 IIAKCKRNKPTSCSRFPVQTKLDSVQPIARELHQFTEDLLISHWVSVDPPEMAEITIS 888
 CC QY 242 VOVPKILSGKVKPIYFHTQ 260
 CC DB 889 VOVPKILSGKVKPIYFHTQ 907
 CC
 CC RESULT 8
 CC ANDR PANTR STANDARD; PRT; 911 AA.
 CC ID ANDR PANTR
 CC AC 09775;

DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 30-MAY-2000 (Rel. 39, Last annotation update)
 DE Androgen receptor (Oligodendrocyte receptor).
 GN AR OR NR3C4.
 OS Pan troglodytes (Chimpanzee).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
 ON NCBI_TaxID=9598;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98404153; PubMed=9732460;
 RA Choong C.S., Kempainen J.A., Wilson B.M.;
 RT "Evolution of the primate androgen receptor: a structural basis for
 RT disease";
 RT J. Mol. Evol. 47:334-342(1998).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC -----
 CC DR EMBL; U94177; AAC73048.1; .
 CC DR HSSP; P06536; IGDC.
 CC DR TRANSFAC; T04653; .
 CC DR InterPro; IPR001103; Andrgn_receptor.
 CC DR InterPro; IPR000536; Hormone_rec_119.
 CC DR InterPro; IPR001628; Znf_C4steroid.
 CC DR Pfam; PF02166; Androgen_recep; 1.
 CC DR Pfam; PF00104; hormone_rec; 1.
 CC DR Pfam; PF00105; zf-C4; 1.
 CC DR PRINTS; PR00047; STROIDPINGER.
 CC DR ProDom; PD000035; Znf_C4steroid; 1.
 CC DR SMART; SM00430; HOL1; 1.
 CC DR SMART; SM00399; Znf_C4; 1.
 CC DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 CC DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 CC ZINC-finger; Steroid-binding.
 CC FM DOMAIN 1 549 MODULATING (BY SIMILARITY).
 CC FT DNA_BIND 551 616 NUCLEAR RECEPTOR-TYPE.
 CC FT ZN_FING 551 571 C4-TYPE.
 CC FT ZN_FING 587 611 LIGAND-BINDING.
 CC FT DOMAIN 682 911 POLY-GLN.
 CC FT DOMAIN 57 78 POLY-GLN.
 CC FT DOMAIN 84 88 POLY-GLN.
 CC FT DOMAIN 182 196 POLY-GLN.
 CC FT DOMAIN 371 380 POLY-PRO.
 CC FT DOMAIN 395 401 POLY-ALA.
 CC FT DOMAIN 448 464 POLY-GLY.
 CC SQ SEQUENCE 911 AA; 98402 MW; 601B9BD4E697DAA4 CRC64;
 CC
 CC Query Match 98.4%; Score 1349.5; DB 1; Length 911;
 CC Best Local Similarity 99.6%; Pred. No. 3.2e-118;
 CC Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 CC
 CC QY 2 SHMIEGECOPIFLNVLEAIBPGVVCAGHNNOPDSFALLSLNIEGROLVHVVKAK 61
 CC DB 654 SH-IEGYECOPIFLNVLEAIBPGVVCAGHNNOPDSFALLSLNIEGROLVHVVKAK 712
 CC QY ALPGFRNLHVDDQMAVIOYSWMGLMVFAMGWRSTFNVNSMLYFAPDLVENEYRMKSRM 121
 CC DB 713 ALPGFRNLHVDDQMAVIOYSWMGLMVFAMGWRSTFNVNSMLYFAPDLVENEYRMKSRM 772

QY 122 YSCVAMRHLISORFGWLOITPQELCKAKALLFSIIPVDGLKQKQFDELMNYIKELDR 181
 DB 773 YSCVAMRHLISORFGWLOITPQELCKAKALLFSIIPVDGLKQKQFDELMNYIKELDR 832
 QY 182 IIAKCKRNPTSGRRPYOLTKLDSVQPIARELHQTFFDLILKSHVSVDFPMMAEITS 241
 DB 833 IIAKCKRNPTSGRRPYOLTKLDSVQPIARELHQTFFDLILKSHVSVDFPMMAEITS 892
 QY 242 VQVPKILSGVKRPIYFHTQ 260
 DB 893 VQVPKILSGVKRPIYFHTQ 911
 RESULT 9
 ANDR_HUMAN STANDARD; PRT; 919 AA.
 AC P10275;
 DT 01-MAR-1989 (Rel. 10, Created)
 DT 01-APR-1990 (Rel. 14, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Androgen receptor (Dihydrotestosterone receptor).
 GN AR OR NR3C4 OR DHTR.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=89112208; PubMed=3216866;
 RA Lubahn D.B., Joseph D.R., Sar M., Tan J., Higgs H.N., Larson R.E.,
 RA French P.S., Wilson E.M.;
 RT "The human androgen receptor: complementary deoxyribonucleic acid
 RT cloning, sequence analysis and gene expression in prostate.";
 RT Mol. Endocrinol. 2:1265-1275(1988).
 RN [2]
 RP SEQUENCE FROM N.A., AND VARIANT CAIS MET-866.
 RX MEDLINE=90083302; PubMed=2594783;
 RA Lubahn D.B., Brown T.R., Simental J.A., Higgs H.N., Migeon C.J.,
 RA Wilson E.M., French P.S.;
 RT "Sequence of the intron/exon junctions of the coding region of the
 RT human androgen receptor gene and identification of a point mutation
 RT in a family with complete androgen insensitivity.";
 RT Proc. Natl. Acad. Sci. U.S.A. 86:9534-9538(1989).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90258935; PubMed=2342476;
 RA Govindan M.V.;
 RT "Specific region in hormone binding domain is essential for hormone
 RT binding and trans-activation by human androgen receptor.";
 RT Mol. Endocrinol. 4:417-427(1990).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Prostate;
 MEDLINE=89017168; PubMed=3174628;
 RA Chang C., Kokontis J., Liao S.;
 RT "Structural analysis of complementary DNA and amino acid sequences of
 RT human and rat androgen receptors.";
 RT Proc. Natl. Acad. Sci. U.S.A. 85:7211-7215(1988).
 RN [5]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Prostate;
 MEDLINE=89098909; PubMed=2911578;
 RA Tilley W.D., Marcelli M., Wilson J.D., McPhaul M.J.;
 RT "Characterization and expression of a cDNA encoding the human androgen
 RT receptor.";
 RT Proc. Natl. Acad. Sci. U.S.A. 86:327-331(1989).
 RN [6]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Prostate;
 MEDLINE=91155943; PubMed=2293020;
 RA Marcelli M., Tilley W.D., Wilson C.M., Griffin J.E., Wilson J.D.,
 RA McPhaul M.J.;

RT "Definition of the human androgen receptor gene structure permits the
 RT identification of mutations that cause androgen resistance: premature
 RT termination of the receptor protein at amino acid residue 588 causes
 RT complete androgen resistance.";
 RT Mol. Endocrinol. 4:1105-1116(1990).
 RN [7]
 RP SEQUENCE OF 189-919 FROM N.A.
 RX MEDLINE=8817811; PubMed=3353726;
 RA Chang C., Kokontis J., Liao S.;
 RT "Molecular cloning of human and rat complementary DNA encoding
 RT androgen receptors.";
 RT Science 240:324-326(1988).
 RN [8]
 RP SEQUENCE OF 468-919 FROM N.A.
 RX MEDLINE=88240407; PubMed=3377788;
 RA Trapman J., Klaassen P., Kuiper G.G.J.M., van der Kout J.A.G.M.,
 RA Faber P.W., van Rooij H.C.J., Geurts van Kessel A., Voortroet M.M.,
 RA Mulder E., Brinkmann A.O.;
 RT "Cloning, structure and expression of a cDNA encoding the human
 RT androgen receptor.";
 RT Biochem. Biophys. Res. Commun. 153:241-248(1988).
 RN [9]
 RP INTERACTION WITH RAN.
 RX MEDLINE=99329028; PubMed=10400640;
 RA Hsiao P.-W., Lin D.-L., Nakao R., Chang C.;
 RT "The linkage of Kennedy's neuron disease to ARA24, the first
 RT identified androgen receptor polyglutamine region-associated
 RT coactivator.";
 RT J. Biol. Chem. 274:20229-20234(1999).
 RN [10]
 RP POLYMORPHISM OF POLY-GLN REGION.
 RX MEDLINE=92220629; PubMed=1561105;
 RA Slidders H.F.B.M., Oostera B.A., Brinkmann A.O., Trapman J.;
 RT "Trinucleotide repeat polymorphism in the androgen receptor gene
 RT (AR)."
 RT Nucleic Acids Res. 20:1427-1427(1992).
 RN [11]
 RP POLYMORPHISM OF POLY-GLY REGION.
 RX TISSUE=Blood.
 RA Lu J., Daniels M.;
 RT "Submitted (FSB-1995) to the EMBL/GenBank/DBJ databases."
 RN [12]
 RP POLYMORPHISM OF POLY-GLN REGION.
 RX MEDLINE=97250535; PubMed=9096391;
 RA Giovannucci E., Stampfer M.J., Krithivas K., Brown M., Brufsky A.,
 RA Talcott J., Hennekens C.H., Kantoff P.W.;
 RT "The CAG repeat within the androgen receptor gene and its
 RT relationship to prostate cancer.";
 RT Proc. Natl. Acad. Sci. U.S.A. 94:3320-3323(1997).
 RN [13]
 RP ERRATUM.
 RA Giovannucci E., Stampfer M.J., Krithivas K., Brown M., Dahl D.,
 RA Brufsky A., Talcott J., Hennekens C.H., Kantoff P.W.;
 RT Proc. Natl. Acad. Sci. U.S.A. 94:8272-8272(1997).
 RN [14]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=93092459; PubMed=1458719;
 RA Pinsky L., Trifiro M.A., Kautman M., Beltel L.K., Matre A.,
 RA Kazemi-Bafarjani P., Sabaghian N., Lombroso R., Alvarado C.,
 RA Vasilion M., Gottlieb B.;
 RT "Androgen resistance due to mutation of the androgen receptor.";
 RT Clin. Invest. Med. 15:456-472(1992).
 RN [15]
 RP REVIEW ON VARIANTS AIS.
 RX MEDLINE=9333360; PubMed=8339746;
 RA Brown T.R., Scherer P.A., Chang Y.-T., Migeon C.J., Ghirri P.,
 RA Muroto K., Zhou Z.;
 RT "Molecular genetics of human androgen insensitivity.";
 RT Eur. J. Pediatr. 153 Suppl. 2:S62-S69(1993).
 RN [16]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=94059770; PubMed=8240973;
 RA Sultan C., Lombroso S., Poujol N., Belon C., Boudon C.,

RA Lobaccaro J.-M.;
 RT "Mutations of androgen receptor gene in androgen insensitivity
 RT syndromes";
 RL J. Steroid Biochem. Mol. Biol. 46:519-530(1993).
 RN [17]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=95023089; PubMed=7937057;
 RA Patterson M.N., Hughes I.A., Gottlieb B., Pinsky L.;
 RT "The androgen receptor gene mutations database";
 RL Nucleic Acids Res. 22:3560-3562(1994).
 RN [18]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=95352489; PubMed=7626493;
 RA Brinkmann A.O., Jenster G., Ris-Stalpers C., van der Korput J.A.G.M.,
 RA Bruggenwirth H.T., Bochner A.L.M., Trapman J.;
 RT "Androgen receptor mutations";
 RL J. Steroid Biochem. Mol. Biol. 53:443-446(1995).
 RN [19]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=97169385; PubMed=9016528;
 RA Gottlieb B., Trifiro M.A., Lumbroso R., Vasiljov D.M., Pinsky L.;
 RT "The androgen receptor gene mutations database";
 RL Nucleic Acids Res. 25:158-162(1997).
 RN [20]
 RP VARIANT LNCAP ALA-877.
 RX MEDLINE=91083633; PubMed=2260966;
 RA Veldscholte J., Ris-Stalpers C., Kuiper G.G.J.M., Jenster G.,
 RA Berrevoets C.A., Claassen E., van Rooij H.C.J., Trapman J.,
 RA Brinkmann A.O., Mulder E.;
 RT "A mutation in the ligand binding domain of the androgen receptor of
 RT human LNCAP cells affects steroid binding characteristics and
 RT response to anti-androgens";
 RL Biochem. Biophys. Res. Commun. 173:534-540(1990).
 RN [21]
 RP VARIANTS CAIS CYS-774; GLN-831 AND MET-866.
 RX MEDLINE=91186983; PubMed=2082179;
 RA Brown T.R., Lubahn D.B., Wilson E.M., French F.S., Migeon C.J.,
 RA Corten J.L.;
 RT "Functional characterization of naturally occurring mutant androgen
 RT receptors from subjects with complete androgen insensitivity";
 RL Mol. Endocrinol. 4:1759-1772(1990).
 RN [22]
 RP VARIANT CYS-774.
 RX MEDLINE=91310758; PubMed=1856263;
 RA Marcelli M., Tilley W.D., Zoppi S., Griffin J.E., Wilson J.D.,
 RA McPhaul M.J.;
 RT "Androgen resistance associated with a mutation of the androgen
 RT receptor at amino acid 772 (Arg-->Cys) results from a combination of
 RT decreased messenger ribonucleic acid levels and impairment of
 RT receptor function";
 RL J. Clin. Endocrinol. Metab. 73:318-325(1991).
 RN [23]
 RP VARIANT CAIS PRO-617.
 RX MEDLINE=91154385; PubMed=1999491;
 RA Marcelli M., Zoppi S., Grino P.B., Griffin J.E., Wilson J.D.,
 RA McPhaul M.J.;
 RT "A mutation in the DNA-binding domain of the androgen receptor gene
 RT causes complete testicular feminization in a patient with
 RT receptor-positive androgen resistance";
 RL J. Clin. Invest. 87:1123-1126(1991).
 RN [24]
 RP VARIANT PAIS CYS-763.
 RX MEDLINE=91185626; PubMed=2010552;
 RA McPhaul M.J., Marcelli M., Tilley W.D., Griffin J.E.,
 RA Isidoro-Gutierrez R.F., Wilson J.D.;
 RT "Molecular basis of androgen resistance in a family with a qualitative
 RT abnormality of the androgen receptor and responsive to high-dose
 RT androgen therapy";
 RL J. Clin. Invest. 87:1413-1421(1991).
 RN [25]

Query Match 98.4%; Score 1349.5; DB 1; Length 919;
 Best Local Similarity 99.6%; Pred. No. 3,3e-118;

Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SEMTEGTCOPIFLNATBAIEPGV/CAGHNNQDPSAALLSSNAGEQOLVHVYVYAK 61
 DB 662 SH-IEGYEQPIFLNATBAIEPGV/CAGHNNQDPSAALLSSNAGEQOLVHVYVYAK 720
 QY 62 ALPGFRLHVDQNAVQYSGMGLMFAWGKRSPTVNSRLYAPPLVFNEMYSRM 121
 DB 721 ALPGFRLHVDQNAVQYSGMGLMFAWGKRSPTVNSRLYAPPLVFNEMYSRM 780
 QY 122 YSQCVRMHLQSEBQWLOITPOEFLCKKALLPSIIPVDGLKQKFPDELRMYIKELDR 181
 DB 781 YSQCVRMHLQSEBQWLOITPOEFLCKKALLPSIIPVDGLKQKFPDELRMYIKELDR 840
 QY 182 IIAKRRKPTSCSRRTQTLTLDVQPIAREHQPFDLLIKSHMNSVDPPEMAATIS 241
 DB 841 IIAKRRKPTSCSRRTQTLTLDVQPIAREHQPFDLLIKSHMNSVDPPEMAATIS 900
 QY 242 VQPKRTISGKVKPYPHQ 260
 DB 901 VQPKRTISGKVKPYPHQ 919
 RESULT 10
 PRGR_RABIT STANDARD; PRT; 930 AA.
 AC P06186;
 DT 01-JAN-1988 (Rel. 06, Created)
 DT 01-JAN-1988 (Rel. 06, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Progesterone receptor (PR).
 GN PGR OR NR33.
 OS Oryctolagus cuniculus (Rabbit).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
 OX NCBI_TaxID=9986;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87067449; PubMed=3538016;
 RA Loosfelt H., Atger M., Mierah M., Gulochon-Mantel A., Meriel C.,
 RA Loget F., Benarous R., Milgrom E.;
 RT "Cloning and sequence analysis of rabbit progesterone-receptor
 RT complementary DNA";
 RL Proc. Natl. Acad. Sci. U.S.A. 83:9045-9049(1986).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 DB EMBL; M14547; AAA31443.1; -.
 DB PIR; A25923; A25923.
 DB HSSP; P06401; 1A28.
 DB TRNSPAC; T00697; -.
 DB InterPro; IPR000536; Hormone_rec_1lg.
 DB InterPro; IPR000128; Progect_receptor.
 DB InterPro; IPR001723; Strdhmn_receptor.
 DB InterPro; IPR001628; Znf_C4steroid.
 DB Pfam; PF00104; hormone_rec_1.
 DB Pfam; PF02161; Prog_receptor; 1.
 DB Pfam; PF00105; zf_C4; 1.
 DB PRINTS; PR00396; STRDHOMONER.


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FT  VARIANT      865      865      /FTID=VAR_014627;
FT                                     S->L (IN DBSNP:2020880);
FT                                     /FTID=VAR_014628;
FT  CONFLICT      226      226      G->S (IN REF. 1);
FT  CONFLICT      256      256      V->S (IN REF. 1);
FT  CONFLICT      344      344      S->T (IN REF. 1);
FT  CONFLICT      660      660      L->V (IN REF. 2);
FT  HELIX          686      693
FT  TURN          694      694
FT  HELIX          711      735
FT  TURN          737      738
FT  HELIX          739      741
FT  HELIX          744      770
FT  TURN          772      773
FT  STRAND        775      779
FT  TURN          780      781
FT  STRAND        782      785
FT  HELIX          786      790
FT  TURN          791      791
FT  HELIX          795      811
FT  TURN          812      812
FT  HELIX          815      826
FT  TURN          827      827
FT  STRAND        829      830
FT  TURN          832      833
FT  TURN          836      837
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FT  TURN          858      859
FT  HELIX          863      896
FT  TURN          897      897
FT  HELIX          898      901
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FT  HELIX          907      921
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FT  STRAND        926      927
SQ  SEQUENCE      933 AA; 98994 MW; 80414B7F1E317F8E CRC64;

Query Match      55.8%; Score 765; DB 1; Length 933;
Best Local Similarity 55.8%; Pred. No. 1.5e-63;
Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

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OC  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX  NCBI_Taxid=10116;
RN  [1]
RP  SEQUENCE FROM N.A.
RC  STRAIN=Sprague-Dawley; TISSUE=Placenta;
RX  MEDLINE=94130817; PubMed=8299566;
RA  Park-Sarge O.K., Mayo K.B.;
RT  "Regulation of the progesterone receptor gene by gonadotropins and
    cyclic adenosine 3',5'-monophosphate in rat granulosa cells.";
RL  Endocrinology 134:709-718 (1994).
CC  -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
    THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
    PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
CC  -1- SUBCELLULAR LOCATION: Nuclear.
CC  -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
    A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
CC  -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
    subfamily.
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    entities requires a license agreement (see http://www.isb-sib.ch/announce/
    or send an email to license@isb-sib.ch).
CC  EMBL; L16922; AAA19916.1;
CC  PIR; I53280; I53280.
CC  HSSP; P06401; IAZ8.
CC  TRANSFAC; T04681;
CC  InterPro; IPR000536; Hormone_rec_1ig.
CC  InterPro; IPR000128; Progester_receptor.
CC  InterPro; IPR001723; Steroid_receptor.
CC  InterPro; IPR001628; Znf_Casteroid.
CC  Pfam; PF00104; hormone_rec; 1.
CC  Pfam; PF02161; Prog_receptor; 1.
CC  Pfam; PF00105; Zf-C4; 1.
CC  PRINTS; PR00398; STERHOMONER.
CC  PRINTS; PR00047; STEROIDFINER.
CC  ProDom; PD000035; Znf_Casteroid; 1.
CC  SMART; SM00430; HOL1; 1.
CC  SMART; SM00399; ZNF_C4; 1.
CC  PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
CC  Receptor; Transcription regulation; DNA-binding; Nuclear protein;
    Zinc-finger; Steroid-binding.
CC  DOMAIN 1 556 MODULATING, PRO-RICH.
CC  FT DNA BIND 557 622 NUCLEAR RECEPTOR-TYPE.
CC  FT ZN_FING 557 577 C4-TYPE.
CC  FT ZN_FING 593 617 C4-TYPE.
CC  FT DOMAIN 671 923 STEROID-BINDING.
CC  FT DOMAIN 184 188 NUCLEAR LOCALIZATION SIGNAL (POTENTIAL).
SQ  SEQUENCE      923 AA; 99407 MW; 05384B9656BF22DC CRC64;

Query Match      55.4%; Score 759; DB 1; Length 923;
Best Local Similarity 55.8%; Pred. No. 5.5e-63;
Matches 137; Conservative 55; Mismatches 53; Indels 0; Gaps 0;

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QY 252 VKPIYFH 258
DB 915 VKPLLFH 921

RESULT 13

PRGR MOUSE STANDARD; PRT; 923 AA.
ID 000175;
AC 01-DEC-1992 (Rel. 24, Created)
DT 01-DEC-1992 (Rel. 24, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Progesterone receptor (PR).
GN PGR OR NR3C3 OR PR.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91299759; Pubmed=2069958;
RA Schoft D.R., Shyamala G., Schneider W., Parry G.;
RT "Molecular cloning, sequence analyses, and expression of complementary DNA encoding murine progesterone receptor.";
RL Biochemistry 30:7014-7020(1991).
RN [2]
RP SEQUENCE OF 1-9 FROM N.A.
RC STRAIN=129/Sv;
RX MEDLINE=95100931; Pubmed=7802637;
RA Hagihara K., Wu-Peng X.S., Funabashi T., Kato J., Pfaff D.W.;
RT "Nucleic acid sequence and DNase hypersensitive sites of the 5' region of the mouse progesterone receptor gene.";
RL Biochem. Biophys. Res. Commun. 205:1093-1101(1994).
CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
CC -1- SUBCELLULAR LOCATION: Nuclear.
CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3 subfamily.
CC -----
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CC -----
DR EMBL; M68915; AAA3971.1; -;
DR EMBL; U12644; AAA66067.1; -;
DR PIR; A39596; A39596.
DR HSRF; F06401; 1A28.
DR TRANSFAC; T04680; -;
DR MGD; MGI:97567; Pgr.
DR InterPro; IPR000536; Hormone_rec.1lg.
DR InterPro; IPR000128; Progesterone_receptor.
DR InterPro; IPR001723; Steroid_receptor.
DR InterPro; IPR001628; Znf_C4steroid.
DR Pfam; PF00104; hormone_rec.1.
DR Pfam; PF02161; Prog_receptor.1.
DR Pfam; PF00105; zf-C4.1.
DR PRINTS; PR00398; STRDHOMONER.
DR PRINTS; PR00047; STROIDPTNGER.
DR ProDom; PD000035; Znf_C4steroid.1.
DR SMART; SM00430; HOL1.1.
DR SMART; SM00399; Znf_C4.1.
DR PROSITE; PS00031; NUCLEAR_RECEPTOR.1.
DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;
KW Zinc-finger; Steroid-binding.
FT DOMAIN 1 556 MODULATING, PRO-RICH.

FT DNA BIND 557 622 NUCLEAR RECEPTOR-TYPE.
FT ZN_FING 557 577 CA-TYPE.
FT ZN_FING 593 617 CA-TYPE.
FT DOMAIN 671 923 STEROID-BINDING.
FT DOMAIN 184 188 NUCLEAR LOCALIZATION SIGNAL (POTENTIAL).
SQ SEQUENCE 923 AA; 99073 MW; 9415FIED343BEE3F CRC64;

Query Match 55.3%; Score 758; DB 1; Length 923;
Best Local Similarity 55.1%; Pred. No. 6, 8e-63;
Matches 136; Conservative 56; Mismatches 55; Indels 0; Gaps 0;

QY 12 PIFLNVLAIRBPGVCAHDNNQPSFALLSLNELSGROLVHVYKMAKALPGFNHLY 71
DB 675 PFLINLMSIRPDVYAGHDNTPDTSSSLSLNSINGRQLSLVYKMSKSLPGFNH 734
QY 72 DDMNAVIOYSGNGLVFWANGFSTNNVSRMLYFAPDLVFNRYKHSRMYSQCVRRHL 131
DB 735 DDQITLIOYSWMSLVFGLGMSYKHSVSOQMYFAPDLILNQRKMLESPFSLCLTMQOI 794
QY 132 SQEFGWLOTTPOEFLCMKALLFSLIPVYGLKNOKFDELRMYNTKEIDRIIACRKNPT 191
DB 795 PDEFKLVQTHREFFLCMKVLLMLNTTFLSGLSOSQFESMRSSYRELKALGLRQGVV 854
QY 192 SCSRRFYQVTKLDSVOPARLHOFEDLLIKSHVSVDFPENNABIIISVQPKLISGK 251
DB 855 PFSQRFYQVTKLDSLHDLVQGLHYCLNTFISQNTLAVFEPFEMSEVIAQDPIILAGM 914
QY 252 VKPIYFH 258
DB 915 VKPLLFH 921

RESULT 14

PRGR CHICK STANDARD; PRT; 786 AA.
ID P07812; Q90946;
AC 01-AUG-1988 (Rel. 08, Created)
DT 01-AUG-1988 (Rel. 08, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Progesterone receptor (PR).
GN PGR OR NR3C3.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_Taxid=9031;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=8616640; Pubmed=3443098;
RA Gronemeyer H., Turcotte B., Quirin-Sticker C., Bocquet M.T., Meyer M.E., Kozowski Z., Jeltsch J.M., Lerouge T., Garnier J.M., Chabon P.;
RT "The chicken progesterone receptor: sequence, expression and functional analysis.";
RL EMBL J. 6:3985-3994(1987).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=91042592; Pubmed=3153474;
RA Connely O.M., Dobson A.D.W., Tsai M.-J., Beattie W.G., Toft D.O., Huckaby C.S., Zarucki T., Schrader W.T., O'Malley B.W.;
RT "Sequence and expression of a functional chicken progesterone receptor.";
RL Mol. Endocrinol. 1:517-525(1987).
RN [3]
RP SEQUENCE OF 128-164 FROM N.A.
RX MEDLINE=86289413; Pubmed=2426779;
RA Connely O.M., Sullivan W.P., Toft D.O., Birnhauser M., Cook R.G., Maxwell B.L., Zarucki-Schultz T., Greene G.L., Schrader W.T., O'Malley B.W.;
RT "Molecular cloning of the chicken progesterone receptor.";
RL Science 233:767-770(1986).
RN [4]
RP SEQUENCE OF 417-490 FROM N.A.

RA MEDLINE=86287271; PubMed2426697;
 RA Jeltsch J.M., Krozowski Z., Quirin-Sticker C., Gronemeyer H.,
 RA Simpson R.J., Garnier J.M., Krust A., Jacob P., Chambon P.,
 RT "Cloning of the chicken progesterone receptor.";
 RL Proc. Natl. Acad. Sci. U.S.A. 83:5424-5428 (1986).
 RN [5]
 RP DIFFERENCE BETWEEN FORM 1 AND FORM 2.
 RX MEDLINE=89340509; PubMed2760059;
 RA Conneely O.M., Kettelberger D.M., Tsai M.-J., Schrader W.T.,
 RA O'Malley B.W.;
 RT "The chicken progesterone receptor A and B isoforms are products of
 RT an alternate translation initiation event.";
 RL J. Biol. Chem. 264:14062-14064 (1989).
 RN [6]
 RN SEQUENCE FROM N.A. (ISOFORMS A; A'; B AND B').
 RP MEDLINE=90154085; PubMed2303488;
 RX Jeltsch J.-M., Tuccotte B., Garnier J.-M., Lerouge T., Krozowski Z.,
 RA Gronemeyer H., Chambon P.;
 RT "Characterization of multiple mRNAs originating from the chicken
 RT progesterone receptor gene. Evidence for a specific transcript
 RT encoding form A.";
 RL J. Biol. Chem. 265:3967-3974 (1990).
 CC -1- FUNCTION: THE STEROID HORMONES AND THEIR RECEPTORS ARE INVOLVED IN
 CC THE REGULATION OF EUKARYOTIC GENE EXPRESSION AND AFFECT CELLULAR
 CC PROLIFERATION AND DIFFERENTIATION IN TARGET TISSUES.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=4;
 CC Name=A;
 CC IsoId=P07812-1; Sequence=Displayed;
 CC IsoId=P07812-2; Sequence=VSP_003708, VSP_003709;
 CC Name=B;
 CC IsoId=P07812-3; Sequence=VSP_003707;
 CC Name=B';
 CC IsoId=P07812-4; Sequence=VSP_003707, VSP_003708, VSP_003709;
 CC -1- TISSUE SPECIFICITY: OVINE.
 CC -1- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN,
 CC A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
 CC -1- SIMILARITY: Belongs to the nuclear hormone receptor family. NR3
 CC subfamily.
 CC -----
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation-
 CC the European Bioinformatics Institute. There are no restrictions on its
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; Y00092; CAA68282.1; -
 DR EMBL; M13972; AAA49034.1; -
 DR EMBL; M37518; AAA49013.1; -
 DR EMBL; M37518; AAA49014.1; -
 DR EMBL; M14278; AAA49035.1; -
 DR EMBL; M14279; AAA49038.1; -
 DR EMBL; M14280; AAA49039.1; -
 DR EMBL; M32732; AAA49011.1; -
 DR EMBL; M31104; AAA49011.1; JOINED.
 DR EMBL; M32726; AAA49011.1; JOINED.
 DR EMBL; M32727; AAA49011.1; JOINED.
 DR EMBL; M32728; AAA49011.1; JOINED.
 DR EMBL; M32729; AAA49011.1; JOINED.
 DR EMBL; M32730; AAA49011.1; JOINED.
 DR EMBL; M31104; AAA49012.1; JOINED.
 DR EMBL; M32726; AAA49012.1; JOINED.
 DR EMBL; M32727; AAA49012.1; JOINED.
 DR EMBL; M32728; AAA49012.1; JOINED.
 DR EMBL; M32729; AAA49012.1; JOINED.
 DR EMBL; M32730; AAA49012.1; JOINED.
 DR EMBL; M31104; AAA49009.1; -
 DR EMBL; M31104; AAA49010.1; -

DR PIR: A35466; A35466.
 DR HSSP; P06401; 1A28.
 DR TRANSFAC; T00698; -
 DR InterPro; IPR000536; Hormone_rec_1lg.
 DR InterPro; IPR000128; Progesterone_receptor.
 DR InterPro; IPR001723; Steroid_receptor.
 DR InterPro; IPR001628; Znf_C4steroid.
 DR Pfam; PF00104; hormone_rec_1.
 DR Pfam; PF02161; Prog_receptor; 1.
 DR Pfam; PF00105; Zf-C4; 1.
 DR PRINTS; PR00398; STERDROMONER.
 DR PRINTS; PR00047; STEROIDFINGER.
 DR ProDom; PD000035; Znf_C4steroid; 1.
 DR SMART; SM00430; HOL1; 1.
 DR SMART; SM00399; Znf_C4; 1.
 DR PROSITE; PS00031; NUCLEAR RECEPTOR; 1.
 DR Receptor; Transcription regulation; DNA-binding; Nuclear protein;
 KW Zinc-finger; Steroid-binding; Alternative splicing.
 FT DOMAIN 1 420 MODULATING, PRO-RICH.
 FT DNA BIND 421 486 NUCLEAR RECEPTOR-TYPE.
 FT ZN_FING 421 441 C4-TYPE.
 FT ZN_FING 457 481 STEROID-BINDING.
 FT DOMAIN 487 786 ASP/GLU-RICH (ACIDIC).
 FT DOMAIN 48 80 Missing (in isoform B and isoform B').
 FT VASPLIC 1 127 /FTId=VSP_003707.
 FT VASPLIC 452 458 QHNYLCA -> TISYHCS (in isoform A' and
 FT VASPLIC 459 786 /FTId=VSP_003708.
 FT VASPLIC 459 786 Missing (in isoform A' and isoform B').
 FT VASPLIC 459 786 /FTId=VSP_003709.
 FT CONFLICT 58 58 E -> DD (IN REF. 2).
 FT CONFLICT 480 480 K -> N (IN REF. 2).
 FT CONFLICT 489 489 G -> A (IN REF. 2).
 FT CONFLICT 577 577 R -> T (IN REF. 2).
 FT CONFLICT 642 642 M -> I (IN REF. 2).
 SQ SEQUENCE 786 AA; 85743 MW; 65955950BC45BD9 CRC64;
 Query Match 54.9%; Score 752; DB 1; Length 786;
 Best Local Similarity 56.3%; Pred. No. 2e-62;
 Matches 139; Conservative 53; Mismatches 55; Indels 0; Gaps 0;
 QY 12 PIFNVLEAIRPGVGVGCHDNNOPDSFALLSSINIEGEOQLVHVWVAKALPGRNH 71
 DB 538 PPMISVLRGIEBVAIVGYDNTKEPSSLSLSNHCERQLLCVKKSKLLPGRNLI 597
 QY 72 DDQNAVIOYVMGLMVPAMGWRSTFNYSRLYFAPDLVFNBYMHRSMYSOCVRW 131
 DB 598 DDQITLQYSMSLMTVPAMGWRSTFNYSRLYFAPDLVFNBYMHRSMYSOCVRW 657
 QY 132 SOEFGMLQITPOEFLCKKALLISIIIVDGLKNOKFDELPMNTYKSLDRILACKRNP 191
 DB 658 PQEFVRLQVSOEFLCKKALLISIIIVDGLKNOKFDELPMNTYKSLDRILACKRNP 717
 QY 192 SCRRFVOLTFLDLSVQPIARELHQFTFDLIXHMSVSDPEEMARISQVPRKISGX 251
 DB 718 ANSOFQYLTQKMSMDLVNQLHLFCLNTFLQSRALSVSEPPMSEVIAQPLIAGM 777
 QY 252 VKPIYFH 258
 DB 778 VKPIYFH 784
 RESULT 15
 PRGR SHEEP STANDARD; PRT; 377 AA.
 ID PRGR SHEEP 028590;
 AC 01-NOV-1997 (Rel. 35, Created)
 DT 15-OUT-1998 (Rel. 36, Last sequence update)
 DT 15-OUT-1999 (Rel. 38, Last annotation update)
 DE Progesterone receptor (PR) (Fragment).
 GN PRGR OR NR3C3.
 OS Ovis aries (sheep).

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:40:28 / Search time 19 seconds

(without alignments)
1315,992 Million cell updates/sec

Title: US-09-687-609A-1

Perfect score: 1371

Sequence: 1 GSHHIEYBECPIPLANVLEA.....SVQVPLKLSGKXPIYFHTQ 260

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 283308 seqs, 9616862 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: PIR.76:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1349.5	98.4	899	2	A35895
2	1349.5	98.4	902	2	B40494
3	1349.5	98.4	919	2	A39248
4	1341.5	97.8	910	2	A34721
5	1306	95.3	911	2	B34721
6	1217	88.8	344	2	151330
7	900	65.6	848	2	UG0194
8	766	55.9	930	2	A25923
9	765	55.8	933	1	ORHUP
10	759	55.4	923	2	153280
11	758	55.3	923	2	A39596
12	752	54.9	786	2	A35466
13	665	48.5	984	2	A29513
14	662.5	48.3	777	1	ORHUGA
15	662	48.3	981	2	A41401
16	657.5	48.0	783	1	A25691
17	650.5	47.4	776	1	S44047
18	648.5	47.3	758	2	S60586
19	644.5	47.0	771	2	A54273
20	638.5	46.6	795	1	ORRTG
21	564	41.1	742	1	ORHUGB
22	387	28.2	166	2	S35795
23	286	20.9	110	2	153287
24	222	16.2	535	2	S58224
25	218.5	15.9	589	1	ORXHE
26	218	15.9	586	1	ORXHE
27	216.5	15.8	595	2	147140
28	215	15.7	620	2	T10423
29	214.5	15.6	574	2	A37197

ALIGNMENTS

RESULT 1

A35895

androgen receptor - mouse

C:Species: Mus musculus (house mouse)

C:Date: 31-Oct-1990 #sequence revision 31-Oct-1990 #text change 20-Sep-1999

C:Accession: A35895; A37255; A37908; S34398; S17198; S40626; I4501; S12082

R:He, W.W.; Fischer, L.M.; Sun, S.; Bilharz, D.L.; Zhu, X.; Young, C.Y.F.; Kelley, D.B.; Biochem. Biophys. Res. Commun. 171, 697-704, 1990

A:Title: Molecular cloning of androgen receptors from divergent species with a polymerase

epor cDNA probes from dog, guinea pig and clawed frog.

A:Reference number: A35895; MUID:90386642; PMID:2403358

A:Accession: A35895

A:Molecule type: mRNA

A:Residues: 1-899 <HEA>

A:Cross-references: EMBL:X53779; NID:949966; PIDN:CAA37795.1; PID:949967

R:Gaap, M.L.; Mo, T.; Toel, M.

Mol. Endocrinol. 4, 1600-1610, 1990

A:Title: Structure and size distribution of the androgen receptor mRNA in wild-type and

A:Reference number: A37255; MUID:91133435; PMID:2178222

A:Accession: A37255

A:Molecule type: mRNA

A:Status: preliminary

A:Residues: 1-899 <GAS>

A:Cross-references: GB:M37890; NID:9191935; PIDN:AA37234.1; PID:9191936

R:Charest, N.U.; Zhou, Z.; Lubahn, D.B.; Olsen, K.L.; Wilson, E.M.; French, F.S.

Mol. Endocrinol. 5, 573-581, 1991

A:Title: A frameshift mutation destabilizes androgen receptor messenger RNA in the Tfm

A:Reference number: A37908; MUID:92017874; PMID:1661426

A:Accession: A37908

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-899 <CHA>

A:Cross-references: GB:S56585; NID:9236048; PIDN:AA81916.1; PID:9236049

R:Reber, P.W.; King, A.; van Rooij, H.C.J.; Brinkmann, A.O.; de Boer, N.J.; Trapman, J.

Biochem. J. 278, 269-278, 1991

A:Title: The mouse androgen receptor. Functional analysis of the protein and characteriz

A:Reference number: S17198; MUID:91354214; PMID:1883356

A:Accession: S34398

A:Molecule type: DNA

A:Residues: 1-899 <FAB>

A:Cross-references: EMBL:X59592; NID:949968; PIDN:CAA42160.1; PID:949969

A:Accession: S17198

A:Molecule type: mRNA

A:Residues: 1-899 <FA2>

A:Cross-references: GB:X59592; NID:949968; PIDN:CAA42160.1; PID:949969

R:He, W.W.; Kumar, M.V.; Tindall, D.J.

Nucleic Acids Res. 19, 2373-2378, 1991

A:Title: A frame-shift mutation in the androgen receptor gene causes complete androgen it

A:Reference number: S40626; MUID:91252278; PMID:2041777

A:Accession: S40626

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 366-413 <HEM>
 A:Cross-references: EMBL:X53779
 R:Gaepart, M.
 Proc. Natl. Acad. Sci. U.S.A. 88, 8606-8610, 1991
 A:Title: A single base deletion in the Tfm androgen receptor gene creates a short-lived
 A:Reference number: 149501, MUID:92020902, PMID:1924321
 A:Accession: 149501
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-899 <RES>
 A:Cross-references: GB:M37890; NID:g191935; PIDN:AAA37234.1; PID:g191936
 C:Genetics:
 A:Introns: 518/2; 569/1; 608/1; 704/1; 752/2; 796/1; 848/3
 C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 C:Keywords: DNA binding; transcription regulation; zinc finger
 F:1-536/Domain: regulatory #status predicted <REG>
 F:537-795/Domain: erba transforming protein homology <ERBA>
 F:539-559/Region: zinc finger
 F:575-599/Region: zinc finger
 F:650-899/Domain: hormone binding #status predicted <LIG>

Query Match 98.4%; Score 1349.5; DB 2; Length 899;
 Best Local Similarity 99.6%; Pred. No. 2.5e-118;

Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGECPTFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGEROLVHVYKAK 61
 DB 642 SH-IEGYECQPIFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGEROLVHVYKAK 700
 QY 62 ALPGFRLNVLHVDQMAVIOYSWGLMVFAMGWRSFVNVSRLMVFAPDLVFNERYMKSRLM 121
 DB 701 ALPGFRLNVLHVDQMAVIOYSWGLMVFAMGWRSFVNVSRLMVFAPDLVFNERYMKSRLM 760
 QY 122 YSQCVRMHLISOEFGMLQITPOEFLCMKALLFSIIPDGLKNOKFDELNNYIKELDR 181
 DB 761 YSQCVRMHLISOEFGMLQITPOEFLCMKALLFSIIPDGLKNOKFDELNNYIKELDR 820
 QY 182 IIAKCRKNPTSCSRFFYOLTKLDSVQPIARELHQTFTDLLIKSHMVSVDPEMAAIIIS 241
 DB 821 IIAKCRKNPTSCSRFFYOLTKLDSVQPIARELHQTFTDLLIKSHMVSVDPEMAAIIIS 880
 QY 242 VQVPKILSGKVPYFHTQ 260
 DB 881 VQVPKILSGKVPYFHTQ 899

RESULT 2

B40494
 C:Species: Rattus norvegicus (Norway rat)
 C:Date: 14-Feb-1992 #sequence revision 14-Feb-1992 #text change 20-Sep-1999
 C:Accession: B40494; A34943; A36283; B40108
 R:Chang, C.; Kokontis, J.; Liao, S.
 Proc. Natl. Acad. Sci. U.S.A. 85, 7211-7215, 1988
 A:Title: Structural analysis of complementary DNA and amino acid sequences of human and
 A:Reference number: A40494; MUID:89017168; PMID:3174628
 A:Accession: B40494
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-902 <CHA>
 A:Cross-references: GB:M23264; NID:g202967; PIDN:AAA40759.1; PID:g202968
 R:Tan, J.; Joseph, D.R.; Quarby, V.E.; Lubahn, D.B.; Sar, M.; French, F.S.; Wilson, E.M.
 Mol. Endocrinol. 2, 1276-1285, 1988
 A:Title: The rat androgen receptor: primary structure, autoregulation of its messenger
 A:Reference number: A34943; MUID:89112209; PMID:3216867
 A:Accession: A34943
 A:Molecule type: mRNA
 A:Residues: 1-388; S'; 390-902 <TAN>
 A:Cross-references: GB:M20133; NID:g202895; PIDN:AAA40733.1; PID:g202896
 R:Fairbrough, W.G.; Quarby, V.E.; Simental, J.A.; Joseph, D.R.; Sar, M.; Lubahn, D.B.; C
 J. Biol. Chem. 265, 8893-8900, 1990
 A:Title: A single base mutation in the androgen receptor gene causes androgen insensitivity
 A:Reference number: A36283; MUID:90256822; PMID:2341409

A:Accession: A36283
 A:Molecule type: mRNA
 A:Residues: 1-194; 196-902 <YAR>
 A:Cross-references: GB:J05454
 R:Chang, C.; Kokontis, J.; Liao, S.
 Science 240, 324-326, 1988
 A:Title: Molecular cloning of human and rat complementary DNA encoding androgen receptor
 A:Reference number: A40108; MUID:88178111; PMID:3353726
 A:Accession: B40108
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 540-611 <CH2>
 C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 C:Keywords: DNA binding; zinc finger
 F:540-798/Domain: erba transforming protein homology <ERBA>
 F:542-562/Region: zinc finger
 F:578-602/Region: zinc finger

Query Match 98.4%; Score 1349.5; DB 2; Length 902;
 Best Local Similarity 99.6%; Pred. No. 2.5e-118;

Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGECPTFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGEROLVHVYKAK 61
 DB 645 SH-IEGYECQPIFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGEROLVHVYKAK 703
 QY 62 ALPGFRLNVLHVDQMAVIOYSWGLMVFAMGWRSFVNVSRLMVFAPDLVFNERYMKSRLM 121
 DB 704 ALPGFRLNVLHVDQMAVIOYSWGLMVFAMGWRSFVNVSRLMVFAPDLVFNERYMKSRLM 763
 QY 122 YSQCVRMHLISOEFGMLQITPOEFLCMKALLFSIIPDGLKNOKFDELNNYIKELDR 181
 DB 764 YSQCVRMHLISOEFGMLQITPOEFLCMKALLFSIIPDGLKNOKFDELNNYIKELDR 823
 QY 182 IIAKCRKNPTSCSRFFYOLTKLDSVQPIARELHQTFTDLLIKSHMVSVDPEMAAIIIS 241
 DB 824 IIAKCRKNPTSCSRFFYOLTKLDSVQPIARELHQTFTDLLIKSHMVSVDPEMAAIIIS 883
 QY 242 VQVPKILSGKVPYFHTQ 260
 DB 884 VQVPKILSGKVPYFHTQ 902

RESULT 3

A39248
 C:Species: Homo sapiens (man)
 C:Date: 04-Oct-1991 #sequence revision 04-Oct-1991 #text change 24-Nov-1999
 C:Accession: A39248; A30328; A60946; A34942; A27653; A40108; A40494; A32224; A40
 R:Lubahn, D.B.; Brown, T.R.; Simental, J.A.; Higley, H.N.; Wilson, E.M.; Fr
 Proc. Natl. Acad. Sci. U.S.A. 86, 9534-9538, 1989
 A:Title: Sequence of the intron/exon junctions of the coding region of the human androge
 A:Reference number: A39248; MUID:90083302; PMID:2594783
 A:Accession: A39248
 A:Molecule type: DNA
 A:Residues: 1-919 <LUB>
 A:Cross-references: GB:M27423; GB:M27430; NID:g178904; PIDN:AAA51886.1; PID:g178906
 R:Faber, P.W.; Kuiper, G.G.J.M.; van Rooij, H.C.J.; Van der Korput, J.A.G.M.; Brinmann,
 Mol. Cell. Endocrinol. 61, 257-262, 1989
 A:Title: The N-terminal domain of the human androgen receptor is encoded by one, large e
 A:Reference number: A30328; MUID:89137730; PMID:2917688
 A:Accession: A30328
 A:Molecule type: DNA
 A:Residues: 1-77; 79-165; A'; 167-389; T'; 391-464; 473-538 <FAB>
 A:Cross-references: GB:M20260
 R:Lubahn, D.B.; Joseph, D.R.; Sullivan, P.M.; Willard, H.F.; French, F.S.; Wilson, E.M.
 Science 240, 327-330, 1988
 A:Title: Cloning of human androgen receptor complementary DNA and localization to the X
 A:Reference number: A40109; MUID:88178112; PMID:3353727
 A:Accession: A40109
 A:Molecule type: DNA
 A:Residues: 559-624 <LUB>
 A:Cross-references: GB:M20132

R.Kuiper, G.G.J.M.; Faber, P.W.; van Rooij, H.C.J.; van der Korpuit, J.A.G.M.; Ris-Stalpe
J. Mol. Endocrinol. 2, R1-R4, 1989
A>Title: Structural organization of the human androgen receptor gene.
A.Reference number: A60946; PMID:89322749; PMID:2546571
A.Accession: A60946
A.Molecule type: DNA
A.Residues: 536-540;587-591;626-631;723-726;770-774;814-818;867-870 <RUI>
R.Lubahn, D.B.; Joseph, D.R.; Sax, M.; Tan, J.; Higgs, H.N.; Larson, R.E.; French, P.S.;
Mol. Endocrinol. 2, 1265-1275, 1988
A>Title: The human androgen receptor: complementary deoxyribonucleic acid cloning, sequ
A.Reference number: A34942; PMID:89112208; PMID:3316866
A.Accession: A34942
A.Molecule type: mRNA
A.Residues: 1-919 <LUI>
A.Cross-references: GB:M20132; NID:g178627; PIDN:AAA51729.1; PID:g178628; GB:J03180
R.Trapman, J.; Klaassen, P.; Kuiper, G.G.J.M.; van der Korpuit, J.A.G.M.; Faber, P.W.; va
Biochem. Biophys. Res. Commun. 153, 241-248, 1988
A>Title: Cloning, structure and expression of a cDNA encoding the human androgen recept
A.Reference number: A27653; PMID:88240407; PMID:3377788
A.Accession: A27653
A.Molecule type: mRNA
A.Residues: 468-564, 'K', 566-919 <TRA>
A.Cross-references: GB:M20260; NID:g178891; PIDN:AAA51774.1; PID:g178892
A>Note: the authors translated the codon AAG for residue 565 as Glu
R.Chang, C.; Kokontis, J.; Liao, S.
Science 240, 324-326, 1988
A>Title: Molecular cloning of human and rat complementary DNA encoding androgen receptor
A.Reference number: A40108; PMID:88178111; PMID:3353726
A.Accession: A40108
A.Molecule type: mRNA
A.Residues: 557-628 <CHA>
A.Cross-references: GB:M18624
R.Chang, C.; Kokontis, J.; Liao, S.
Proc. Natl. Acad. Sci. U.S.A. 85, 7211-7215, 1988
A>Title: Structural analysis of complementary DNA and amino acid sequences of human and
A.Reference number: A40494; PMID:89017168; PMID:3174628
A.Accession: A40494
A.Molecule type: mRNA
A.Residues: 1-74, 79-89, 'H', 90-472, 'GGG', 473-474, 'E', 476-644, 'N', 646-919 <CH2>
A.Cross-references: GB:M23263
R.Lilley, W.D.; Macceilli, M.; Wilson, J.D.; McPhaul, M.J.
Proc. Natl. Acad. Sci. U.S.A. 86, 327-331, 1989
A>Title: Characterization and expression of a cDNA encoding the human androgen receptor.
A.Reference number: A32224; PMID:89098909; PMID:29151578
A.Accession: A32224
A.Molecule type: mRNA
A.Residues: 1-77, 79-211, 'R', 213-471, 473-919 <TIL>
A.Cross-references: GB:M21748; GB:J04150; NID:g178871; PIDN:AAA51771.1; PID:g178872
R.Mowzowicz, I.; Lee, H.J.; Chen, H.T.; Westayer, C.; Porcels, M.C.; Cabrol, S.; Mauva
Mol. Endocrinol. 7, 861-869, 1993
A>Title: A point mutation in the second zinc finger of the DNA-binding domain of the and
A.Reference number: A40715; PMID:94019395; PMID:8413310
A.Accession: A40715
A>Status: not compared with conceptual translation
A.Molecule type: DNA
A.Residues: 557-614, 'H', 616-624 <MOW>
A.Cross-references: PIDN:AA828340.1; PID:9425580
C.Genetics:
A.Gene: GDB:AR
A.Cross-references: GDB:120556; OMIM:313700
A.Map position: Xq11-Xq12
A.Introns: 538/2; 589/1; 628/1; 724/1; 772/2; 816/1; 868/3
C:Superfamily: unassigned exba-related proteins; exba transforming protein homology
C:Keywords: DNA binding; steroid binding; transcription regulation; zinc finger
F:557-815/Domain: exba transforming protein homology <ERBA>
F:559-579/Region: zinc finger
F:595-619/Region: zinc finger

Query Match 98.4%; Score 1349.5; DB 2; Length 919;
Best Local Similarity 99.6%; Pred. No. 2,6e-118;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIRGECQPIFLNVLAIKIPGVVCAQHNNQPSFALLSSINELGERQLVHVYKAK 61
DB 662 SH-IEGYECQPIFLNVLAIKIPGVVCAQHNNQPSFALLSSINELGERQLVHVYKAK 720
QY 62 ALPGFRNLHVDQMAVIOYSWGLMVFAMGRSFTNVNSRMLYFAPDLVFNEYRHKSRM 121
DB 721 ALPGFRNLHVDQMAVIOYSWGLMVFAMGRSFTNVNSRMLYFAPDLVFNEYRHKSRM 780
QY 122 YSQCVRMHLSQEFQWLOITPOEFLCMKALLFSIIPVDGLKNQKFPDELNNYIKELDR 181
DB 781 YSQCVRMHLSQEFQWLOITPOEFLCMKALLFSIIPVDGLKNQKFPDELNNYIKELDR 840
QY 182 IIAKRRKNTSCSRPFQLTGLDSVQPIARELHQFTFDLIKSHMVSVDPEEMAAEIS 241
DB 841 IIAKRRKNTSCSRPFQLTGLDSVQPIARELHQFTFDLIKSHMVSVDPEEMAAEIS 900
QY 242 VQVPKILSGKVPYFHTQ 260
DB 901 VQVPKILSGKVPYFHTQ 919

RESULT 4

A34721
androgen receptor A - human
C:Species: Homo sapiens (man)
C>Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 12-Sep-1997
C:Accession: A34721
R:Govindan, M.V.
Mol. Endocrinol. 4, 417-427, 1990
A>Title: Specific region in hormone binding domain is essential for hormone binding and
A.Reference number: A34721; PMID:90258935; PMID:2342476
A.Accession: A34721
A.Molecule type: mRNA
A.Residues: 1-910 <GOV>
C:Superfamily: unassigned exba-related proteins; exba transforming protein homology
C:Keywords: zinc finger
F:548-806/Domain: exba transforming protein homology <ERBA>
F:550-570/Region: zinc finger
F:586-610/Region: zinc finger

Query Match 97.8%; Score 1341.5; DB 2; Length 910;
Best Local Similarity 98.8%; Pred. No. 1.4e-117;
Matches 256; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

QY 2 SHMIRGECQPIFLNVLAIKIPGVVCAQHNNQPSFALLSSINELGERQLVHVYKAK 61
DB 653 SH-IEGYECQPIFLNVLAIKIPGVVCAQHNNQPSFALLSSINELGERQLVHVYKAK 711
QY 62 ALPGFRNLHVDQMAVIOYSWGLMVFAMGRSFTNVNSRMLYFAPDLVFNEYRHKSRM 121
DB 712 ALPGFRNLHVDQMAVIOYSWGLMVFAMGRSFTNVNSRMLYFAPDLVFNEYRHKSRM 771
QY 122 YSQCVRMHLSQEFQWLOITPOEFLCMKALLFSIIPVDGLKNQKFPDELNNYIKELDR 181
DB 772 YSQCVRMHLSQEFQWLOITPOEFLCMKALLFSIIPVDGLKNQKFPDELNNYIKELDR 831
QY 182 IIAKRRKNTSCSRPFQLTGLDSVQPIARELHQFTFDLIKSHMVSVDPEEMAAEIS 241
DB 832 IIAKRRKNTSCSRPFQLTGLDSVQPIARELHQFTFDLIKSHMVSVDPEEMAAEIS 891
QY 242 VQVPKILSGKVPYFHTQ 260
DB 892 VQVPKILSGKVPYFHTQ 910

RESULT 5

B34721
androgen receptor B - human
C:Species: Homo sapiens (man)
C>Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 12-Sep-1997
C:Accession: B34721
R:Govindan, M.V.
Mol. Endocrinol. 4, 417-427, 1990

A>Title: Specific region in hormone binding domain is essential for hormone binding and
 A:Reference number: A34721; MUID:90258935; PMID:2342476
 A:Accession: B34721
 A:Molecule type: mRNA
 A:Residues: 1-911 <GO2>
 C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 C:Keywords: zinc finger
 F:548-806/Domain: erba transforming protein homology <ERBA>
 F:550-570/Region: zinc finger
 F:586-610/Region: zinc finger

Query Match 95.3%; Score 1306; DB 2; Length 911;
 Best Local Similarity 97.3%; Pred. No. 3.1e-114;
 Matches 253; Conservative 1; Mismatches 4; Indels 2; Gaps 2;

QY 2 SHMIRGECOPFLNVLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAK 61
 DB 653 SH-IRGECOPFLNVLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAK 711
 QY 62 ALPGFRNLHVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRM 121
 DB 712 ALPGFRNLHVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRM 771
 QY 122 YSGCVRMRHLSQBFGLQITPQFELCKKALLLSIIIPVGLKNO-KEPDELMMYIKELD 180
 DB 772 YSGCVRMRHLSQBFGLQITPQFELCKKALLLSIIIPVGLKNO-LFFFLNMYIKELD 831
 QY 181 RIACRKNPSCSRRFQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEII 240
 DB 832 RIACRKNPSCSRRFQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEII 891
 QY 241 SVQVPEKLSGKVPYFHTQ 260
 DB 892 SVQVPEKLSGKVPYFHTQ 911

RESULT 6

151330
 androgen receptor - common canary (fragment)
 C:Species: Serinus canaria (common canary)
 C>Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 20-Sep-1999
 C:Accession: I51330
 R:Nastjuk, K.L.; Clayton, D.F.
 Endocrinology 134, 640-649, 1994
 A>Title: Seasonal and tissue-specific regulation of canary androgen receptor messenger
 A:Reference number: I51330; MUID:94130808; PMID:8299561
 A:Accession: I51330
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-344 <NMS>
 A:Cross-references: GB:I25901; NID:9414733; PIDN:AAA17402.1; PID:9414734
 A:Gene: AR
 C:Genetics:
 C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 C:Keywords: zinc finger
 F:1-251/Domain: erba transforming protein homology (fragment) <ERBA>

Query Match 88.8%; Score 1217; DB 2; Length 344;
 Best Local Similarity 92.7%; Pred. No. 2e-106;
 Matches 227; Conservative 13; Mismatches 5; Indels 0; Gaps 0;

QY 5 IEGYECOPFLNVLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAKALP 64
 DB 100 IDGYECOPFLNVLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAKALP 159
 QY 65 GFNRLHVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRMYSQ 124
 DB 160 GFNRLHVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRMYSQ 219
 QY 125 CVMRHLISQBFGLQITPQFELCKKALLLSIIIPVGLKNO-KEPDELMMYIKELDRITA 184
 DB 220 CVMRHLISQBFGLQITPQFELCKKALLLSIIIPVGLKNO-KEPDELMMYIKELDRITA 279

QY 185 CKNRNPSCSRRFQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEIIISQV 244
 DB 280 CKNRNPSCSRRFQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEIIISQV 339
 QY 245 PKILS 249
 DB 340 PKILS 344

RESULT 7

androgen receptor - Japanese eel
 C:Species: Anguilla japonica (Japanese eel)
 C>Date: 23-Jul-1999 #sequence_revision 23-Jul-1999 #text_change 11-May-2000
 C:Accession: JG0194
 R:Todo, T.; Ikeuchi, T.; Kobayashi, T.; Nagahama, Y.
 Biochem. Biophys. Res. Commun. 254, 378-383, 1999
 A>Title: Fish androgen receptor: cDNA cloning, steroid activation of transcription in tri
 A:Reference number: JG0194; MUID:99119319; PMID:9918846
 A:Accession: JG0194
 A:Status: Preliminary
 A:Molecule type: mRNA
 A:Residues: 1-848 <TOD>
 C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 F:491-745/Domain: erba transforming protein homology <ERB>

Query Match 65.6%; Score 900; DB 2; Length 848;
 Best Local Similarity 68.1%; Pred. No. 3.7e-76;
 Matches 173; Conservative 35; Mismatches 42; Indels 4; Gaps 2;

QY 7 GYECOPFLNVLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAKALPGF 66
 DB 596 GFHTQSMFLNLEIPGVVCAAGHDNNOPOPSFALLSLNLSLGEROLVHYVYKAKALPGF 655
 QY 67 RNLHVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRMYSQCV 126
 DB 656 RSLVVDQMAVIOYSWGLVFPANGWRSFTVNSRMLYFAPDLVFNERYMHSRMYSQCV 715
 QY 127 RMRHLSQBFGLQITPQFELCKKALLLSIIIPVGLKNO-KEPDELMMYIKELDRITACK 186
 DB 716 RMRHLSQBFGLQITPQFELCKKALLLSIIIPVGLKNO-KEPDELMMYIKELDRITACK 775
 QY 187 RKNPSCSRRFQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEIIISQV 244
 DB 776 SK--SSGSRKQYLTKLDSVQPIARELHOFTEDLLIKSHVSVDEPEMAEIIISQV 833
 QY 245 PKILSGKVPYFHTQ 258
 DB 834 PKILSGKVPYFHTQ 847

RESULT 8

A25923
 progesterone receptor - rabbit
 C:Species: Oryctolagus cuniculus (domestic rabbit)
 C>Date: 16-Aug-1988 #sequence_revision 16-Aug-1988 #text_change 20-Aug-1999
 C:Accession: A25923
 R:Loosfelt, H.; Atger, M.; Mistrati, M.; Guichon-Mantel, A.; Meriel, C.; Logeat, F.; Ben
 Proc. Natl. Acad. Sci. U.S.A. 83, 9045-9049, 1986
 A>Title: Cloning and sequence analysis of rabbit progesterone-receptor complementary DNA
 A:Reference number: A25923; MUID:87067449; PMID:3538016
 A:Accession: A25923
 A:Molecule type: mRNA
 A:Residues: 1-930 <LOO>
 A:Cross-references: GB:M14547; NID:9165631; PIDN:AAA31443.1; PID:9165632
 C:Superfamily: progesterone receptor; erba transforming protein homology
 C:Keywords: DNA binding; nucleus; steroid hormone receptor; transcription regulation; zi
 F:566-826/Domain: erba transforming protein homology <ERBA>
 F:568-588/Region: zinc finger
 F:604-628/Region: zinc finger

Query Match 55.9%; Score 766; DB 2; Length 930;
 Best Local Similarity 55.5%; Pred. No. 1.6e-63;

QY 12 PIFLVNLEAIBPGVACAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHV 71
 DB PMSIVLNGIIEPVEVYAGVDNKNPSPSLTSLNHLCEKQQLCVYKSKLLPGFNNLHI 597
 QY 72 DDQMAVIOYSWKLAVPANGMSFTNVNSRLYPADLVNENYRHKSRMSYQCYRMHL 131
 DB DDQITLIOYSWKLAVPANGMSYKGVSGQMYPADLVNENYRHKSRMSYQCYRMHL 657
 QY 132 SOEPGMLITPOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPT 191
 DB POEPLRLOVSOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPT 717
 QY 192 SCRRFYOLTKLDSVQPIARELHOFTFDLTKSHVSVDPPEMAAIIISVQPKLSGK 251
 DB ANSQFYOLTKLDSMDHVLVQLHLFCNTLPIQSALSTPEPBMSEVIAQOLPKILGKM 777
 QY 252 VKPIYFH 258
 DB VKPIYFH 784

RESULT 13

A29513
 A:Accession: A29513
 A:Residues: 1-384 <ARK>
 A:Cross-references: GB:M16801; NID:G187460; PIDN:AAA59571.1; PID:G307166
 A:Gene: GDB:MLR
 A:Map position: 4q31-4q31
 A:Superfamily: unassigned erba-related proteins; erba transforming protein homology
 C:Keywords: DNA binding; transcription regulation; zinc finger
 F:601-880/Domain: erba transforming protein homology <ERBA>
 F:603-623/Region: zinc finger
 F:639-663/Region: zinc finger

Query Match 48.5%; Score 665; DB 2; Length 984;
 Best Local Similarity 52.9%; Pred. No. 5.2e-54;
 Matches 128; Conservative 44; Mismatches 70; Indels 0; Gaps 0;

QY 17 VLEAIEPVCAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHVDDQMA 76
 DB VLEAIEPVCAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHVDDQMA 76
 QY 741 VLEAIEPVCAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHVDDQMA 800
 DB VLEAIEPVCAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHVDDQMA 800
 QY 77 VIOYSWKLAVPANGMSFTNVNSRLYPADLVNENYRHKSRMSYQCYRMHL 136
 DB VIOYSWKLAVPANGMSFTNVNSRLYPADLVNENYRHKSRMSYQCYRMHL 136
 QY 801 LIQSWKLAVPANGMSFTNVNSRLYPADLVNENYRHKSRMSYQCYRMHL 860
 DB LIQSWKLAVPANGMSFTNVNSRLYPADLVNENYRHKSRMSYQCYRMHL 860
 QY 137 WLOITPOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPTSCSR 196
 DB WLOITPOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPTSCSR 196
 QY 861 RLQITPOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPTSCSR 920
 DB RLQITPOEPLCMKALLFSIIIPVDGLKNQKPEPDELNNYIKELDRITACRKNPTSCSR 920
 QY 197 FYOLTKLDSVQPIARELHOFTFDLTKSHVSVDPPEMAAIIISVQPKLSGKVPY 256
 DB FYOLTKLDSVQPIARELHOFTFDLTKSHVSVDPPEMAAIIISVQPKLSGKVPY 256
 QY 921 FYOLTKLDSVQPIARELHOFTFDLTKSHVSVDPPEMAAIIISVQPKLSGKVPY 980
 DB FYOLTKLDSVQPIARELHOFTFDLTKSHVSVDPPEMAAIIISVQPKLSGKVPY 980

RESULT 14

QY 257 FH 258
 DB 981 FH 982

ORHUGA

glucocorticoid receptor, alpha splice form - human
 N:Alternate names: hGR
 C:Species: Homo sapiens (man)
 C:Date: 04-Dec-1986 #sequence revision 04-Dec-1986 #text change 21-Jul-2000
 C:Accession: A93370; A39837; A39779; I56596; A03246; A32186
 R:Hollenberg, S.M.; Weinberger, C.; Ong, E.S.; Cerelli, G.; Oro, A.; Lebo, R.; Thompson, N.
 Nature 318, 635-641, 1985
 A:Title: Primary structure and expression of a functional human glucocorticoid receptor
 A:Reference number: A93370; MUID:86092206; PMID:2867473
 A:Accession: A93370
 A:Molecule type: mRNA
 A:Residues: 1-777 <HOL>
 A:Cross-references: EMBL:X03225; GB:M10901; NID:G31679; PIDN:CAA26976.1; PID:G31680
 R:Leclerc, S.; Xie, B.; Roy, R.; Govindan, M.V.
 J. Biol. Chem. 266, 8711-8719, 1991
 A:Title: Purification of a human glucocorticoid receptor gene promoter-binding protein.
 A:Reference number: A39837; MUID:91224961; PMID:2026589
 A:Accession: A39837
 A:Molecule type: DNA
 A:Residues: 1-394 <LEC>
 A:Cross-references: GB:M69104; NID:G183605; PIDN:AAA8049.1; PID:G553322
 R:Encio, I.J.; Delella-Wadleigh, S.D.
 J. Biol. Chem. 266, 7182-7188, 1991
 A:Title: The genomic structure of the human glucocorticoid receptor.
 A:Reference number: A39779; MUID:91201378; PMID:1707881
 A:Accession: A39779
 A:Status: nucleic acid sequence not shown; not compared with conceptual translation
 A:Molecule type: DNA
 A:Residues: 385-404/459-480-498/573-593/621-640/665-685/718-737 <ENC>
 A:Cross-references: GB:M60597
 A:Experimental source: Placenta
 R:Weinberger, C.; Hollenberg, S.M.; Rosenfeld, M.G.; Evans, R.M.
 Nature 318, 670-672, 1985
 A:Title: Domain structure of human glucocorticoid receptor and its relationship to the v-
 A:Reference number: A93373; MUID:86092211; PMID:3841189
 A:Contents: annotation; domain
 R:Dahlman, K.; Stromstedt, P.E.; Rae, C.; Joernvall, H.; Flock, U.I.; Carlstedt-Duke, J.
 J. Biol. Chem. 264, 804-809, 1989
 A:Title: High level expression in *Escherichia coli* of the DNA-binding domain of the glucocorticoid receptor.
 A:Reference number: A32196; MUID:89093147; PMID:2642905
 A:Contents: annotation; domain
 A:Note: engineered sequence expressed in *Escherichia coli*
 R:Govindan, M.V.; Pochier, P.; Leclerc, S.; Palaniswami, R.; Xie, B.
 J. Steroid Biochem. Mol. Biol. 40, 317-323, 1991
 A:Title: Human glucocorticoid receptor gene promoter-homologous down regulation.
 A:Reference number: I56596; MUID:92068829; PMID:1958537
 A:Accession: I56596
 A:Status: preliminary; translated from GB/EMBL/DBD
 A:Molecule type: DNA
 A:Residues: 1-394 <RES>
 A:Cross-references: GB:M68378; NID:G339757; PIDN:AA20466.1; PID:G339758
 C:Comment: Alpha and beta (see PIR:Q8UGB) splice forms differ in their carboxyl-terminal
 A:Gene: GDB:GRL
 A:Cross-references: GDB:120017; OMIM:138040
 A:Map position: 5q31-5q31
 A:Initons: 395/2; 451/1; 583/1; 631/2; 675/1; 727/3
 A:Note: the first intron occurs before the initiator codon
 C:Superfamily: glucocorticoid receptor; erba transforming protein homology
 C:Keywords: alternative splicing; DNA binding; nucleus; steroid hormone receptor; transci
 F:419-674/Domain: erba transforming protein homology <ERBA>
 F:421-441/Region: zinc finger CCCC motif
 F:457-481/Region: zinc finger CCCC motif
 F:728-777/Domain: steroid binding #status predicted <STB>

Query Match 48.3%; Score 662.5; DB 1; Length 777;
 Best Local Similarity 50.6%; Pred. No. 6.5e-54;
 Matches 125; Conservative 49; Mismatches 72; Indels 1; Gaps 1;

QY 12 PIFLVNLEAIBPGVACAGHNNQPSFALLSLNLSLGERQVHVYKAKALPGFNNLHV 71
 DB PMSIVLNGIIEPVEVYAGVDNKNPSPSLTSLNHLCEKQQLCVYKSKLLPGFNNLHI 597

```
QY 72 DDQNAVIOYSNMGILNVPAMGRSFTNNSRMLYFAPDLVFNERYMKSRYSCVRRHL 131
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 590 DDQNTLQYSWTFIAPALGMRSSYRQSSANILCFAPDLINERMTLLPCMTDQCKMPLYV 649
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 132 SOEFGMLQITPQEFICMKALLFSIIPVDGLNOKFPDELBNYIKELDRITACKRKNT 191
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 650 SSELRRLQVSYEEYCKMTLLLSVPPKGLSKOELPDIRMTYIKELGKALVRRGNSS 709
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 192 SCSRRFYQLTKLLDSVQPIARELHOFTFDLIKSHWVSVDPPENMAIISVQPKILSGK 251
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 710 QNWRPFYQLTKLLDSMHEVENLAVYCQTFPLDKTM-SIRFPEMLAEIITNIPKXSGN 768
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 252 VKPIYFH 258
    |||:|||||
Db 769 IKLLLFH 775
    |||:|||||
```

RESULT 15

```
A11401
mineralocorticoid receptor - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 03-Apr-1992 #sequence_revision 03-Apr-1992 #text_change 20-Sep-1999
C:Accession: A11401
R:Patel, P.D.; Sherman, T.G.; Goldman, D.J.; Watson, S.J.
Mol. Endocrinol. 3, 1877-1885, 1989
A:Title: Molecular cloning of a mineralocorticoid (type I) receptor complementary DNA fr
A:Reference number: A11401; MUID:90114194; PMID:2558305
A:Accession: A11401
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-981 <P>A>
A:Cross-references: GB:M36074; NID:9205340; PIDN:AAA1583.1; PID:9205341
C:Superfamily: unassigned erba-related proteins; erba transforming protein homology
C:Keywords: DNA binding; transcription regulation; zinc finger
F:602-877/Domain: erba transforming protein homology <ERBA>
F:604-624/Region: zinc finger
F:640-664/Region: zinc finger
```

Query Match 48.3%; Score 662; DB 2; Length 981;

Best Local Similarity 52.2%; Pred. No. 9, 9e-54;

Matches 128; Conservative 47; Mismatches 64; Indels 6; Gaps 2;

```
QY 17 VLEALBPQVCAQHNNOPDSFALLISLNEIGERQLVHVTKAKALPGFRMLHVDQMA 76
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 738 ILENIEPEVTVAGYDNSKEDTAESLSTINRLAAKOMIQVKKAKVLPFGKMLPLEDQIT 797
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 77 VIOYSMMGLMVPAMGRSFTNNSRMLYFAPDLVFNERYMKSRYSCVRRHL 136
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 798 LIQYSMCLSSPALSRSYKHTNSQLYFAPDLVFNERYMKSRYSCVRRHL 857
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 137 WLQITPQEFICMKALLFSIIPVDGLNOKFPDELBNYIKELDRITACKRKNT 194
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 858 RQLTFEEXYSIMKVLILLSTVPKDGKSAAPFERTNYIKELRKVT--KCPNSSGQS 914
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 195 -RRFTQLTLLDSVQPIARELHOFTFDLIKSHWVSVDPPENMAIISVQPKILSGK 253
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 915 WQRFYQLTKLLDSMDLVLDLFEFCYTERESQALKVEPPAMLVETITDQLPKVSGNAK 974
    |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 254 PIYFH 258
    |||:|||||
Db 975 PIYFH 979
    |||:|||||
```

Search completed: October 9, 2003, 11:43:05
Job time : 20 secs

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: October 9, 2003, 11:41:18 ; Search time 27 Seconds

(without alignments)
1551.607 Million cell updates/sec

Title: US-09-687-609a-1
Perfect score: 1371
Sequence: 1 GSHMIEGYECQPIFLNVLRA.....SVGVKILSGKVPYFHTQ 260

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 600653 seqs, 161128416 residues

Total number of hits satisfying chosen parameters: 600653

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database:

```
1: /cgn2_6/ptodaca/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodaca/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodaca/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodaca/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodaca/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodaca/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodaca/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodaca/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodaca/1/pubpaa/US09_PUBCOMB.pep:*
10: /cgn2_6/ptodaca/1/pubpaa/US09_PUBCOMB.pep:*
11: /cgn2_6/ptodaca/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodaca/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodaca/1/pubpaa/US10_PUBCOMB.pep:*
14: /cgn2_6/ptodaca/1/pubpaa/US10_PUBCOMB.pep:*
15: /cgn2_6/ptodaca/1/pubpaa/US10_PUBCOMB.pep:*
16: /cgn2_6/ptodaca/1/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodaca/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodaca/1/pubpaa/US60_PUBCOMB.pep:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1349.5	98.4	263	12	US-10-220-981-1
2	1349.5	98.4	388	10	US-09-997-267-2
3	1349.5	98.4	907	14	US-10-008-739A-2
4	1349.5	98.4	919	15	US-10-205-823-36
5	1243	90.7	246	10	US-09-885-827-1
6	813.5	59.3	294	10	US-09-997-267-4
7	765	55.8	258	12	US-10-220-981-3
8	765	55.8	314	10	US-09-887-280-4
9	765	55.8	933	15	US-10-207-655-63
10	728	53.1	240	10	US-09-905-176-13
11	666	48.6	215	10	US-09-805-176-11
12	662.5	48.3	777	15	US-10-153-668-226
13	662	48.3	689	15	US-10-202-846-2
14	639.5	46.6	1070	15	US-10-001-486B-2
15	630.5	46.0	284	10	US-09-853-450-20

16	224	16.3	1099	15	US-10-259-864-4	Sequence 4, Appl
17	218	15.9	49	15	US-10-153-398-12	Sequence 12, Appl
18	217	15.8	595	15	US-10-437-107-30	Sequence 30, Appl
19	217	15.8	595	15	US-10-052-092-30	Sequence 3, Appl
20	216.5	15.8	595	12	US-10-437-107-31	Sequence 31, Appl
21	216.5	15.8	595	15	US-10-052-092-31	Sequence 2, Appl
22	215	15.7	595	15	US-09-893-666A-2	Sequence 5, Appl
23	213.5	15.6	323	9	US-09-737-255-5	Sequence 40, Appl
24	213.5	15.6	910	10	US-09-908-153B-40	Sequence 42, Appl
25	213.5	15.6	922	10	US-09-908-153B-42	Sequence 16, Appl
26	211.5	15.4	596	15	US-10-278-481-16	Sequence 4, Appl
27	209	15.2	460	15	US-10-293-370-4	Sequence 4, Appl
28	209	15.2	460	16	US-10-293-324-4	Sequence 4, Appl
29	209	15.2	460	16	US-09-853-033-4	Sequence 4, Appl
30	208.5	15.2	660	10	US-10-157-899A-2	Sequence 6, Appl
31	207.5	15.1	414	12	US-10-157-899A-6	Sequence 6, Appl
32	207.5	15.1	414	12	US-10-157-899A-10	Sequence 10, Appl
33	207.5	15.1	414	12	US-10-157-899A-4	Sequence 12, Appl
34	207.5	15.1	438	12	US-10-157-899A-12	Sequence 16, Appl
35	207.5	15.1	438	12	US-09-965-703-61	Sequence 61, Appl
36	207.5	15.1	472	10	US-09-853-033-2	Sequence 8, Appl
37	207.5	15.1	595	10	US-09-853-033-8	Sequence 14, Appl
38	207.5	15.1	660	10	US-10-278-481-13	Sequence 13, Appl
39	206.5	15.1	241	10	US-10-278-481-2	Sequence 19, Appl
40	206.5	15.1	484	15	US-10-006-760-19	Sequence 1, Appl
41	206.5	15.1	485	15	US-10-006-760-19	Sequence 8, Appl
42	206.5	15.1	511	12	US-10-157-899A-8	
43	206	15.0	243	9	US-09-903-876-1	
44	204.5	14.9	243	9	US-09-903-876-1	
45	204.5	14.9	414	12	US-10-157-899A-8	

ALIGNMENTS

```
RESULT 1
US-10-220-981-1
; Sequence 1, Application US/10220981
; Publication No. US20030167999A1
; GENERAL INFORMATION:
; APPLICANT: Schering AG
; APPLICANT: Donner, Peter
; APPLICANT: Egner, Ursula
; APPLICANT: Carrondo, Maria A
; APPLICANT: Matias, Pedro M
; TITLE OF INVENTION: Cytocal
; FILE REFERENCE: P008463WO CTH
; CURRENT FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: GB 0005689.5
; PRIOR FILING DATE: 2000-03-09
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 263
; TYPE: PR
; ORGANISM: Homo sapiens
US-10-220-981-1
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QY	2	SHMIEGYECQPIFLNVLRAIEPGVVCAGHNNQPSFALLISLNLGSRQLVHVKMK	61
DB	6	SH-IEGYECQPIFLNVLRAIEPGVVCAGHNNQPSFALLISLNLGSRQLVHVKMK	64
QY	62	ALPGFNILVDDOMAVIYQSMGLMVFAMGRSFTNVNSRMTYFAPDLVFNRYRHKSRM	121
DB	65	ALPGFNILVDDOMAVIYQSMGLMVFAMGRSFTNVNSRMTYFAPDLVFNRYRHKSRM	124
QY	122	YSQCVARHLSQFQWLTTPQFLCMKALLFSIIPVGLNKKQFDELRYNYIKELDR	181

Db 125 YSQCVRMRHLISQERFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELRMYIKELDR 184
Qy 182 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 241
Db 185 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 244
Qy 242 VQVPRKILSGKVKPIYFHTQ 260
Db 245 VQVPRKILSGKVKPIYFHTQ 263

RESULT 2

US-09-997-267-2
Sequence 2, Application US/09997267
Patent No. US2002016581A1
GENERAL INFORMATION:
APPLICANT: AHRENS-FATH, ISABELLE
APPLICANT: HAENDLER, BERNARD
TITLE OF INVENTION: HUMAN ANDROGEN RECEPTOR VARIANTS
FILE REFERENCE: SCH-1793
CURRENT APPLICATION NUMBER: US/09/997,267
CURRENT FILING DATE: 2001-11-30
PRIOR APPLICATION NUMBER: 60/255,078
PRIOR FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 388
TYPE: PRT
ORGANISM: Homo sapiens
US-09-997-267-2

Query Match 98.4%; Score 1349.5; DB 10; Length 388;
Best Local Similarity 99.6%; Pred. No. 2e-142;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 2 SHMIEGYECOPIFLNTVLEAIEPVGVCAGHDNNOPDSFALLSSINELGERQLVHVYVWAK 61
Db 131 SH-IEGYECOPIFLNTVLEAIEPVGVCAGHDNNOPDSFALLSSINELGERQLVHVYVWAK 189
Qy 62 ALPFRNLHVDDQNAVIOYSWGLMVFAMGWRSPFTVNSRMLYFAPDLVFNERYMHSRM 121
Db 190 ALPFRNLHVDDQNAVIOYSWGLMVFAMGWRSPFTVNSRMLYFAPDLVFNERYMHSRM 249
Qy 122 YSQCVRMRHLISQERFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELRMYIKELDR 181
Db 250 YSQCVRMRHLISQERFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELRMYIKELDR 309
Qy 182 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 241
Db 310 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 369
Qy 242 VQVPRKILSGKVKPIYFHTQ 260
Db 370 VQVPRKILSGKVKPIYFHTQ 388

RESULT 3

US-10-008-739A-2
Sequence 2, Application US/10008739A
Publication No. US20020161194A1
GENERAL INFORMATION:
APPLICANT: Pfizer Inc.
APPLICANT: Castleberry, Teresa A.
APPLICANT: Lu, Bihong
APPLICANT: Owen, Thomas A.
APPLICANT: Smock, Steven L.
TITLE OF INVENTION: The Canine Androgen Receptor
FILE REFERENCE: PCI0893JAGR
CURRENT APPLICATION NUMBER: US/10/008,739A
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.1

SEQ ID NO 2
LENGTH: 907
TYPE: PRT
ORGANISM: Canine
US-10-008-739A-2

Query Match 98.4%; Score 1349.5; DB 14; Length 907;
Best Local Similarity 99.6%; Pred. No. 6.9e-142;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 2 SHMIEGYECOPIFLNTVLEAIEPVGVCAGHDNNOPDSFALLSSINELGERQLVHVYVWAK 61
Db 650 SH-IEGYECOPIFLNTVLEAIEPVGVCAGHDNNOPDSFALLSSINELGERQLVHVYVWAK 708
Qy 62 ALPFRNLHVDDQNAVIOYSWGLMVFAMGWRSPFTVNSRMLYFAPDLVFNERYMHSRM 121
Db 709 ALPFRNLHVDDQNAVIOYSWGLMVFAMGWRSPFTVNSRMLYFAPDLVFNERYMHSRM 768
Qy 122 YSQCVRMRHLISQERFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELRMYIKELDR 181
Db 769 YSQCVRMRHLISQERFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELRMYIKELDR 828
Qy 182 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 241
Db 829 IIAKCKRNPFTSCSRFFQYLTGLDSVOPILARELHOFTFDLLIKSHMVSVDPEMMARITIS 888
Qy 242 VQVPRKILSGKVKPIYFHTQ 260
Db 889 VQVPRKILSGKVKPIYFHTQ 907

RESULT 4

US-10-205-823-36
Sequence 36, Application US/10205823
Publication No. US20030108963A1
GENERAL INFORMATION:
APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John B.
APPLICANT: Endege, Wilson O.
APPLICANT: Gannavarapu, Manjula
APPLICANT: Gorbacheva, Bella
APPLICANT: Hoersch, Sebastian
APPLICANT: Kamelkar, Shubhangi
APPLICANT: Monsey, Angela M.
APPLICANT: Glatc, Karen
APPLICANT: Zhao, Xumei
APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
THERAPY OF PROSTATE CANCER
FILE REFERENCE: NRI-044
CURRENT APPLICATION NUMBER: US/10/205,823
CURRENT FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 36
LENGTH: 919
TYPE: PRT
ORGANISM: Homo sapiens
US-10-205-823-36

Query Match 98.4%; Score 1349.5; DB 15; Length 919;
Best Local Similarity 99.6%; Pred. No. 7e-142;


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; DB 70 DDQITLIQSWMSLWVFGWRSYKGVSGQMLYFAPDLINBQRMKSSFSYSLCTIMWQI 129
;
; QY 132 SOEFGWLQITPOEFLCMKALLPSIIPVDGLKNQKPEDELRMYIKELDRIIACKRNPT 191
; 130 PQEFLVQLQVSEBFLCMKRVLLNTIIPLEGRLSQTOPEEMRSSYIRELIIKALIGLRQKGV 189
;
; QY 192 SCRRFYQTLTKLDSVQPIARELHOFTEDLLIKSHMVSVDPEEMAAIISVQPKILSGK 251
; 190 SSSQRFYQTLTKLNDLNDLNDLVKQHLVCLNTFIQSRALSVFPEEMSSVIAAQLPKILAGM 249
;
; QY 252 VKPIYFH 258
; DB 250 VKPLLFH 256

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RESULT 8

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; US-09-687-280-4
; Sequence 4, Application US/09887280
; Publication No. US20020197670A1
; GENERAL INFORMATION:
; APPLICANT: PRICE, THOMAS M.
; TITLE OF INVENTION: MEMBRANE ASSOCIATED PROGESTERONE RECEPTOR
; FILE REFERENCE: GHS-338
; CURRENT APPLICATION NUMBER: US/09/887,280
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: 60/213,340
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-687-280-4

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; Query Match 55.8%; Score 765; DB 10; Length 314;
; Best Local Similarity 55.5%; Pred. No. 4,4e-77;
; Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

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; QY 12 PIFNLVLEAIEBPGVACAGHNNQDPSPALLSLINELGERQLVHVYVAKALPGFRNLHV 71
; 66 PPLINLMSIEBPDVYAGHNTKPTSSLSLTSNLQGERQLSVYKMSKSLPGFRNLHI 125
; DB 72 DDQMAVIOYSWGLMVFAMGRSFTNNSRMLYFAPDLVFNERYMKSRYISQCVRMHL 131
; 126 DDQITLIQSWMSLWVFGWRSYKGVSGQMLYFAPDLINBQRMKSSFSYSLCTIMWQI 185
;
; QY 132 SOEFGWLQITPOEFLCMKALLPSIIPVDGLKNQKPEDELRMYIKELDRIIACKRNPT 191
; 186 PQEFLVQLQVSEBFLCMKRVLLNTIIPLEGRLSQTOPEEMRSSYIRELIIKALIGLRQKGV 245
; DB 192 SCRRFYQTLTKLDSVQPIARELHOFTEDLLIKSHMVSVDPEEMAAIISVQPKILSGK 251
; 246 SSSQRFYQTLTKLNDLNDLNDLVKQHLVCLNTFIQSRALSVFPEEMSSVIAAQLPKILAGM 305
;
; QY 252 VKPIYFH 258
; DB 306 VKPLLFH 312

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RESULT 9

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; US-10-207-655-63
; Sequence 63, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426

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; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 63
; LENGTH: 933
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-207-655-63

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; Query Match 55.8%; Score 765; DB 15; Length 933;
; Best Local Similarity 55.5%; Pred. No. 2,1e-76;
; Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

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; QY 12 PIFNLVLEAIEBPGVACAGHNNQDPSPALLSLINELGERQLVHVYVAKALPGFRNLHV 71
; 685 PPLINLMSIEBPDVYAGHNTKPTSSLSLTSNLQGERQLSVYKMSKSLPGFRNLHI 744
; DB 72 DDQMAVIOYSWGLMVFAMGRSFTNNSRMLYFAPDLVFNERYMKSRYISQCVRMHL 131
; 745 DDQITLIQSWMSLWVFGWRSYKGVSGQMLYFAPDLINBQRMKSSFSYSLCTIMWQI 804
;
; QY 132 SOEFGWLQITPOEFLCMKALLPSIIPVDGLKNQKPEDELRMYIKELDRIIACKRNPT 191
; DB 805 PQEFLVQLQVSEBFLCMKRVLLNTIIPLEGRLSQTOPEEMRSSYIRELIIKALIGLRQKGV 864
;
; QY 192 SCRRFYQTLTKLDSVQPIARELHOFTEDLLIKSHMVSVDPEEMAAIISVQPKILSGK 251
; DB 865 SSSQRFYQTLTKLNDLNDLNDLVKQHLVCLNTFIQSRALSVFPEEMSSVIAAQLPKILAGM 924
;
; QY 252 VKPIYFH 258
; DB 925 VKPLLFH 931

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RESULT 10

```

; US-09-905-176-13
; Sequence 13, Application US/09905176
; Patent No. US20020150906A1
; GENERAL INFORMATION:
; APPLICANT: CALIFORNIA INSTITUTE OF TECHNOLOGY
; APPLICANT: Debe, Derek A.
; TITLE OF INVENTION: METHOD FOR DETERMINING THREE-DIMENSIONAL PROTEIN STRUCTURE FROM P
; FILE REFERENCE: 265/297
; CURRENT APPLICATION NUMBER: US/09/905,176
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: US 60/218,016
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-905-176-13

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; Query Match 53.1%; Score 728; DB 10; Length 240;
; Best Local Similarity 55.3%; Pred. No. 4,1e-73;
; Matches 131; Conservative 55; Mismatches 51; Indels 0; Gaps 0;

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; QY 12 PIFNLVLEAIEBPGVACAGHNNQDPSPALLSLINELGERQLVHVYVAKALPGFRNLHV 71
; 4 PPLINLMSIEBPDVYAGHNTKPTSSLSLTSNLQGERQLSVYKMSKSLPGFRNLHI 63
; DB 72 DDQMAVIOYSWGLMVFAMGRSFTNNSRMLYFAPDLVFNERYMKSRYISQCVRMHL 131
; 64 DDQITLIQSWMSLWVFGWRSYKGVSGQMLYFAPDLINBQRMKSSFSYSLCTIMWQI 123
;
; QY 132 SOEFGWLQITPOEFLCMKALLPSIIPVDGLKNQKPEDELRMYIKELDRIIACKRNPT 191
; DB 124 PQEFLVQLQVSEBFLCMKRVLLNTIIPLEGRLSQTOPEEMRSSYIRELIIKALIGLRQKGV 183
;
; QY 192 SCRRFYQTLTKLDSVQPIARELHOFTEDLLIKSHMVSVDPEEMAAIISVQPKIL 248
; DB 184 SSSQRFYQTLTKLNDLNDLNDLVKQHLVCLNTFIQSRALSVFPEEMSSVIAAQLPKIL 240

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RESULT 11
 US-09-905-176-11
 ; Sequence 11, Application US/09905176
 ; Patent No. US20020150906A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CALIFORNIA INSTITUTE OF TECHNOLOGY
 ; APPLICANT: Debe, Derek A.
 ; TITLE OF INVENTION: METHOD FOR DETERMINING THREE-DIMENSIONAL PROTEIN STRUCTURE FROM F
 ; TITLE OF INVENTION: PROTEIN SEQUENCE
 ; FILE REFERENCE: 265/297
 ; CURRENT APPLICATION NUMBER: US/09/905,176
 ; PRIOR FILING DATE: 2002-04-05
 ; PRIOR APPLICATION NUMBER: US 60/218,016
 ; PRIOR FILING DATE: 2000-07-12
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 11
 ; LENGTH: 215
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-905-176-11

Query Match 48.6%; Score 666; DB 10; Length 215;
 Best Local Similarity 55.6%; Pred. No. 3.1e-66;
 Matches 119; Conservative 50; Mismatches 45; Indels 0; Gaps 0;

QY 28 AGHDNNPDSPALLSSINELGEROLVHVYKAKALPGFRNLHVDQNAVIOYWMGLMV 87
 DB 1 AGHDNTPKPTSSLLTSLNQLGEROLSVYKWSKSLPGFRNLHVDQNAVIOYWMGLMV 60
 QY 88 FAWGRSFNTVNSRMILYFAPDLVFNERYMKSMTYOCVRMHLGOERGMQITQOEFIC 147
 DB 61 FGLGRSTKRVHSGMLYFAPDLVFNERYMKSMTYOCVRMHLGOERGMQITQOEFIC 120
 QY 148 KVALLFIIIPVGLKNOKFPDELNMNTYKELDRITACRKNPTSCSRFYQLTLDLNV 207
 DB 121 MKVLLNNTIPLGGRSQTQFERNMSSYRELKIKIGLRQKVSSQRFYQLTLDLNV 180
 QY 208 QPIAREHQTFDLLIKSHMNVDPENMAEIIIS 241
 DB 181 HDLVKQLHLYCLNTFIOIRALSVPEPMMSVIA 214

RESULT 12
 US-10-153-668-226
 ; Sequence 226, Application US/10153668
 ; Publication No. US20030092616A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HONDA, Goichi
 ; APPLICANT: MATSUDA, Akio
 ; APPLICANT: MURAMATSU, Shuji
 ; APPLICANT: ISHIZAWA, Kenya
 ; TITLE OF INVENTION: STAT6 Activating Gene
 ; FILE REFERENCE: 1254-0207P
 ; CURRENT APPLICATION NUMBER: US/10/153,668
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: US 60/293,172
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: US 60/316,031
 ; PRIOR FILING DATE: 2001-08-31
 ; PRIOR APPLICATION NUMBER: US 60/328,403
 ; PRIOR FILING DATE: 2001-10-12
 ; PRIOR APPLICATION NUMBER: JP 2001-157043
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: JP 2001-260681
 ; PRIOR FILING DATE: 2001-08-30
 ; PRIOR APPLICATION NUMBER: JP 2001-313175
 ; PRIOR FILING DATE: 2001-10-10
 ; NUMBER OF SEQ ID NOS: 488
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 226

LENGTH: 777
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-153-668-226

Query Match 48.3%; Score 662.5; DB 15; Length 777;
 Best Local Similarity 50.6%; Pred. No. 4.9e-65;
 Matches 125; Conservative 49; Mismatches 72; Indels 1; Gaps 1;

QY 12 PIFNLVAIEIPGVACAGHDNNPDSPALLSSINELGEROLVHVYKAKALPGFRNLHV 71
 DB 530 PTVSLAEVIEPEVLYAGYDSSVDPSTWRIMTNLMGGRQVIAVAKKALPGFRNLHV 589
 QY 72 DDQNAVIOYWMGLMVPMGRSFNTVNSRMILYFAPDLVFNERYMKSMTYOCVRMHL 131
 DB 590 DDQNTLQYWMFLMAFALGWRSSYROSANLTCFAPDLIINEORNTLPCMTDQCGHMLYV 649
 QY 132 SOEFGLQITPOEFCKAKALLFSIIPVGLKNOKFPDELNMNTYKELDRITACRKNPT 191
 DB 650 SSELRLQVSYEYELCKMTLLSSVFDGKLSQELFDEIMNTYKELGKALVREGNS 709
 QY 192 SCRRFYQLTLDLNVQPIAREHQTFDLLIKSHMNVDPENMAEIIISQVPRKLSGK 251
 DB 710 QNMGRFYQLTLDLSMHEVENLNYCGQFTLDKTM-SIEPEPLARITITQIRKSYNGN 768
 QY 252 VKPIYFH 258
 DB 769 IKKLLFH 775

RESULT 13
 US-10-202-846-2
 ; Sequence 2, Application US/10202846
 ; Publication No. US20030083487A1
 ; GENERAL INFORMATION:
 ; APPLICANT: NAGAHAMA, Yoshitaka
 ; APPLICANT: IKERCHI, Tohbitaka
 ; APPLICANT: KOBAYASHI, Toru
 ; APPLICANT: TODO, Takashi
 ; TITLE OF INVENTION: PROGESTOGEN RECEPTOR POLYPEPTIDES, TRANSGENIC CELLS IN WHICH GENE
 ; TITLE OF INVENTION: ENCODING SAID POLYPEPTIDES ARE INTRODUCED AND METHOD FOR DETECTI
 ; FILE REFERENCE: 113343
 ; CURRENT APPLICATION NUMBER: US/10/202,846
 ; CURRENT FILING DATE: 2002-07-26
 ; PRIOR APPLICATION NUMBER: JP 2001/235,725
 ; PRIOR FILING DATE: 2001-08-03
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 689
 ; TYPE: PRT
 ; ORGANISM: Anguilla japonica
 ; US-10-202-846-2

Query Match 48.3%; Score 662; DB 15; Length 689;
 Best Local Similarity 47.5%; Pred. No. 4.7e-65;
 Matches 121; Conservative 59; Mismatches 75; Indels 0; Gaps 0;

QY 4 MIRSVCOPFLNVLTAIEPGVACAGHDNNPDSPALLSSINELGEROLVHVYKAKAL 63
 DB 433 MYERLQFTPOLISILNIEBEVYSGYDAPETPFLNLSNGLCEROLVTVRWSKSL 492
 QY 64 PGFRNLHVDQNAVIOYWMGLMVPMGRSFNTVNSRMILYFAPDLVFNERYMKSMTY 123
 DB 493 PGFRSLHNDQNTLILYWSMSLVNFSLGWRSPQNVIRELYFAPDLILGEEKRNSPI 552
 QY 124 QCYRANHLSOERGMQITQOEFCKAKALLFSIIPVGLKNOKFPDELNMNTYKELDRIT 183
 DB 553 LCMAMQIIPQADPNQVYKBEFLCKMVLNLTNTVPLEGRSQQFDEMGHYIRELTKAI 612
 QY 184 ACKRKNPTSCRRFYQLTLDLNVQPIAREHQTFDLLIKSHMNVDPENMAEIIISQ 243

Db 613 QUTRGWASSQRPHYTKLMDAMHEIVKXNLYCSTFICAEANQVPEPMSEVITSQ 672
 QY 244 VKPIISGVKPIYFH 258
 Db 673 LPKVLAVGVRFLLFH 687

RESULT 14 US-10-001-486B-2

; Sequence 2, Application US/10001486B
 ; Publication No. US20030082642A1
 ; GENERAL INFORMATION:

APPLICANT: The Government of the United States of America
 as represented by the Secretary
 Department of Health and Human Services
 Washington, D.C.
 Hcun Ph.D., Han
 Hager Ph.D., Gordon L.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MONITORING
 DNA BINDING MOLECULES IN LIVING CELLS

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Needle & Rosenberg
 STREET: 127 Peachtree Street, Suite 1200
 CITY: Atlanta
 STATE: Georgia
 COUNTRY: USA
 ZIP: 30303

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/001,486B
 FILING DATE: 15-No. US20030082642A1-2001
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 60/008,373
 FILING DATE: 08 Dec 1995

ATTORNEY/AGENT INFORMATION:
 NAME: Selby, Elizabeth
 REGISTRATION NUMBER: 38238
 REFERENCE/DOCKET NUMBER: 14014.0183
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 404-688-0770
 TELEFAX: 404-688-9880

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1070 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-10-001-486B-2

Query Match 46.6%; Score 639.5; DB 15; Length 1070;
 Best Local Similarity 49.4%; Pred. No. 3e-62;
 Matches 123; Conservative 48; Mismatches 76; Indels 1; Gaps 1;

QY 12 PIFLVNLEAIEPGVACAGHNNOPDSPAALLSLNIEGROLVHYVAKAKALPGFRNLHV 71
 Db 823 PTVLSLEVEIEPEVLYAGTDSVPSAMRIMTILNMGQVIAAVAKAKALIGLRNLHL 882
 QY 72 DDQMAVIOYSWMGLMVFAMGMSFTNVNSRMLYFAPDLVENEYRMHKSRYMSQCVRRMHL 131
 Db 883 DDQMTLLQYSWMFLMAGMSYRQSSGNLLCFAPDLINERGMSLPGMTDQCKHMLFV 942
 QY 132 SOEFGMLQITPOEFLCKKALLPSIIPVDGLKQKFPDELRMNYIKELDRITACKRKPT 191
 Db 943 SSELQRLQVSYEBYLCMKTLILLSSVPEKGLKSOELFDEIRMTYIKELGKALVKEGNS 1002
 QY 192 SCRRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEPMMAEIIISVQPKILSGK 251

Db 1003 QNMGRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEPMMAEIIISVQPKILSGK 1061
 QY 252 VKPIYFH 258
 Db 1062 IKKLLFH 1068

RESULT 15 US-09-853-450-20

; Sequence 20, Application US/09853450
 ; Publication No. US20020194645A1
 ; GENERAL INFORMATION:

APPLICANT: Yanofsky, Martin F.
 APPLICANT: Pelaz, Soraya

APPLICANT: Ditta, Gary
 TITLE OF INVENTION: The Regents of the University of California
 TITLE OF INVENTION: Combinations of Genes for Producing Seed Plants
 TITLE OF INVENTION: Exhibitions Modulated Reproductive Development

FILE REFERENCE: 19452A-002400US

CURRENT FILING DATE: 2001-05-09

NUMBER OF SEQ ID NOS: 61

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 20

LENGTH: 284

TYPE: PRT

ORGANISM: Rattus norvegicus

FEATURE:

OTHER INFORMATION: rat glucocorticoid receptor ligand binding domain
 US-09-853-450-20

Query Match 46.0%; Score 630.5; DB 10; Length 284;
 Best Local Similarity 49.0%; Pred. No. 4.4e-62;
 Matches 121; Conservative 48; Mismatches 77; Indels 1; Gaps 1;

QY 12 PIFLVNLEAIEPGVACAGHNNOPDSPAALLSLNIEGROLVHYVAKAKALPGFRNLHV 71
 Db 37 PTVLSLEVEIEPEVLYAGTDSVPSAMRIMTILNMGQVIAAVAKAKALIGLRNLHL 96
 QY 72 DDQMAVIOYSWMGLMVFAMGMSFTNVNSRMLYFAPDLVENEYRMHKSRYMSQCVRRMHL 131
 Db 97 DDQMTLLQYSWMFLMAGMSYRQSSGNLLCFAPDLINERGMSLPGMTDQCKHMLFV 156
 QY 132 SOEFGMLQITPOEFLCKKALLPSIIPVDGLKQKFPDELRMNYIKELDRITACKRKPT 191
 Db 157 SSELQRLQVSYEBYLCMKTLILLSSVPEKGLKSOELFDEIRMTYIKELGKALVKEGNS 216
 QY 192 SCRRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEPMMAEIIISVQPKILSGK 251
 Db 217 QNMGRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEPMMAEIIISVQPKILSGK 251
 QY 252 VKPIYFH 258
 Db 276 IKKLLFH 282

Search completed: October 9, 2003, 11:43:39
 Job time: 28 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:39:53 ; Search time 19 Seconds
(Without alignments)

578.991 Million cell updates/sec

Title: US-09-687-609A-1
Perfect score: 1371
Sequence: 1 GSMIMRGYEQPIFLNVLRA.....SVGVPRILSGKVKPIYFHQ 260

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/1/1aa/5A COMB .pep.*
2: /cgn2_6/ptodata/1/1aa/5B COMB .pep.*
3: /cgn2_6/ptodata/1/1aa/6A COMB .pep.*
4: /cgn2_6/ptodata/1/1aa/6B COMB .pep.*
5: /cgn2_6/ptodata/1/1aa/PCUS COMB .pep.*
6: /cgn2_6/ptodata/1/1aa/backfile1.pcp.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1349.5	98.4	452	3	US-08-764-870-16 Sequence 16, Appl
2	1349.5	98.4	452	3	US-08-980-115-16 Sequence 11, Appl
3	1349.5	98.4	918	3	US-09-041-886-11 Patent No. 5223606
4	765	55.9	363	6	5223606-6 Sequence 14, Appl
5	765	55.8	933	3	US-08-764-870-14 Sequence 15, Appl
6	765	55.8	933	3	US-08-980-115-14 Sequence 15, Appl
7	665	48.5	984	3	US-08-764-870-15 Sequence 15, Appl
8	665	48.5	984	3	US-08-980-115-15 Sequence 15, Appl
9	662.5	48.3	777	3	US-08-764-870-13 Sequence 13, Appl
10	662.5	48.3	777	3	US-08-980-115-13 Sequence 13, Appl
11	644.5	47.0	534	3	US-08-875-223-8 Sequence 8, Appl
12	639.5	46.6	1070	4	US-09-091-042A-2 Sequence 2, Appl
13	638.5	46.6	284	2	US-08-592-214A-24 Sequence 24, Appl
14	638.5	46.6	284	3	US-09-149-976-24 Sequence 5, Appl
15	638.5	46.6	795	1	US-07-716-827C-5 Sequence 20, Appl
16	630.5	46.0	284	3	US-08-659-188-20 Sequence 20, Appl
17	630.5	46.0	284	3	US-08-655-227-20 Sequence 20, Appl
18	630.5	46.0	284	3	US-08-655-241-20 Sequence 20, Appl
19	630.5	46.0	284	4	US-09-398-326-20 Sequence 20, Appl
20	626	45.7	356	6	5223606-7 Patent No. 5223606
21	224	16.3	60	5	PCT-US94-14074-1 Sequence 1, Appl
22	211.5	15.4	596	2	US-08-836-620A-16 Sequence 16, Appl
23	209	15.2	460	4	US-09-393-839-4 Sequence 4, Appl
24	207.5	15.1	595	3	US-08-764-870-12 Sequence 12, Appl
25	207.5	15.1	595	3	US-08-980-115-12 Sequence 12, Appl
26	206.5	15.1	484	2	US-08-836-620A-13 Sequence 13, Appl
27	206.5	15.1	485	2	US-08-836-620A-2 Sequence 2, Appl

28	205	15.0	228	3	US-09-249-645-2 Sequence 2, Appl
29	205	15.0	228	4	US-09-844-132B-2 Sequence 2, Appl
30	204.5	14.9	591	2	US-08-836-620A-17 Sequence 17, Appl
31	204.5	14.9	595	3	US-09-041-886-35 Sequence 35, Appl
32	204.5	14.9	595	4	US-08-453-998-2 Sequence 2, Appl
33	204.5	14.9	651	3	US-08-693-940-3 Sequence 3, Appl
34	204.5	14.9	651	3	US-09-566-660-3 Sequence 3, Appl
35	204.5	14.9	773	3	US-08-564-264-1 Sequence 1, Appl
36	203.5	14.8	485	2	US-08-836-620A-3 Sequence 3, Appl
37	203.5	14.8	548	3	US-09-139-617-1 Sequence 1, Appl
38	203.5	14.8	548	4	US-09-561-741A-1 Sequence 1, Appl
39	203.5	14.8	548	4	US-09-558-795-1 Sequence 1, Appl
40	203	14.8	384	2	US-08-836-620A-15 Sequence 15, Appl
41	202.5	14.8	264	4	US-09-660-979-1 Sequence 1, Appl
42	200.5	14.6	229	3	US-09-249-645-1 Sequence 1, Appl
43	198.5	14.5	484	2	US-08-836-620A-14 Sequence 14, Appl
44	198.5	14.5	485	2	US-08-836-620A-5 Sequence 5, Appl
45	196.5	14.3	229	4	US-09-844-132B-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-764-870-16
Sequence 16, Application US/08764870
Patent No. 6236946
GENERAL INFORMATION:
APPLICANT: Scantlan, Thomas S
APPLICANT: Baxter, John D
APPLICANT: Pletterick, Robert J
APPLICANT: Wagner, Richard L
APPLICANT: Kushner, Peter J
APPLICANT: Apriletti, James W
APPLICANT: West, Brian
TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
TITLE OF INVENTION: Binding Domains
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooley Godward
STREET: Five Palo Alto Square, 3000 El Camino Real
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/764,870
CLASSIFICATION: 530
FILING DATE: 13-DEC-1996
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/008,540
FILING DATE: 13-DEC-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/008,543
FILING DATE: 13-DEC-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 60/008,606
FILING DATE: 14-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Nakamura, Jackie N
REGISTRATION NUMBER: 35, 966
REFERENCE/DOCKET NUMBER: UCAL-246/01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 843-5000
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 452 amino acids
TYPE: amino acid

STRANDEDNESS:
TOPOLOGY: linear
MOLECULAR TYPE: protein
US-08-764-870-16

Query Match 98.4%; Score 1349.5; DB 3; Length 452;
Best Local Similarity 99.6%; Pred. No. 9.1e-147;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 61
DB 195 SH-IEGYECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 253
QY 62 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 121
DB 254 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 313
QY 122 YSQCVRMRHLSOBFGLQITPOEFLCMKALLFSIIPVDGLKNOKFPDELIRMYIKELDR 181
DB 314 YSQCVRMRHLSOBFGLQITPOEFLCMKALLFSIIPVDGLKNOKFPDELIRMYIKELDR 373
QY 182 IIAKCRKNPTSCSRPFYQTLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 241
DB 374 IIAKCRKNPTSCSRPFYQTLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 433
QY 242 VQVPKILSGKVPYIFHTQ 260
DB 434 VQVPKILSGKVPYIFHTQ 452

RESULT 2
US-08-980-115-16
Sequence 16, Application US/08980115
Patent No. 6266622

GENERAL INFORMATION:
APPLICANT: Scanlan, Thomas S.
APPLICANT: Baxter, John D.
APPLICANT: Fletcher, Robert J.
APPLICANT: Wagner, Richard L.
APPLICANT: Kushner, Peter J.
APPLICANT: Arielle, James W.
APPLICANT: West, Brian L.
APPLICANT: Shiao, Andrew K.
TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
FILE REFERENCE: UCAL-246/020US
CURRENT APPLICATION NUMBER: US/08/980,115
CURRENT FILING DATE: 1997-11-26
EARLIER APPLICATION NUMBER: 08/764,870
EARLIER FILING DATE: 1996-12-13
EARLIER APPLICATION NUMBER: 60/008,606
EARLIER FILING DATE: 1995-12-14
EARLIER APPLICATION NUMBER: 60/008,543
EARLIER FILING DATE: 1995-12-13
EARLIER APPLICATION NUMBER: 60/008,540
EARLIER FILING DATE: 1995-12-13
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 16
LENGTH: 452
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (184)..(437)
OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-16

Query Match 98.4%; Score 1349.5; DB 3; Length 452;
Best Local Similarity 99.6%; Pred. No. 9.1e-147;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 2 SHMIEGECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 61

DB 195 SH-IEGYECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 253
QY 62 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 121
DB 254 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 313
QY 122 YSQCVRMRHLSOBFGLQITPOEFLCMKALLFSIIPVDGLKNOKFPDELIRMYIKELDR 181
DB 314 YSQCVRMRHLSOBFGLQITPOEFLCMKALLFSIIPVDGLKNOKFPDELIRMYIKELDR 373
QY 182 IIAKCRKNPTSCSRPFYQTLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 241
DB 374 IIAKCRKNPTSCSRPFYQTLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 433
QY 242 VQVPKILSGKVPYIFHTQ 260
DB 434 VQVPKILSGKVPYIFHTQ 452

RESULT 3
US-09-041-886-11
Sequence 11, Application US/09041886
Patent No. 6235872

GENERAL INFORMATION:
APPLICANT: Bredesen, Dale B.
TITLE OF INVENTION: Proapoptotic Peptides, Dependence
TITLE OF INVENTION: Polypeptides and Methods of Use
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSER: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,886
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 918 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULAR TYPE: protein
US-09-041-886-11

Query Match 98.4%; Score 1349.5; DB 3; Length 918;
Best Local Similarity 99.6%; Pred. No. 2.6e-146;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 61
DB 661 SH-IEGYECOPIFLVNLEAIEPGVVCAGHDNNQPSFALLSLNLSLGERQLVHVYVMKAK 719
QY 62 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 121
DB 720 ALPGFNILAVDDQMAVIOYSWGMGLVFWPAMGWSFTNVNSRMLYFAPDLVFNERYRMHKS RM 779
QY 122 YSQCVRMRHLSOBFGLQITPOEFLCMKALLFSIIPVDGLKNOKFPDELIRMYIKELDR 181

Db 780 YSQCVRHSHLSQSGWGLQITPQEFLLCKWALLFSIIPVDGLKNQKFPDELMNYIKELDR 839
 Qy 182 IICCKRNPTSCSRFFQTLTLDVQPIARELHQFTDLIKSHMVSVPPEMAIIS 241
 Db 840 IICCKRNPTSCSRFFQTLTLDVQPIARELHQFTDLIKSHMVSVPPEMAIIS 899
 Qy 242 VOVPKILSGKVPYIFHTQ 260
 Db 900 VOVPKILSGKVPYIFHTQ 918

RESULT 4

5223606-6
 Patent No. 5223606
 APPLICANT: BLADIN DE THE, HUGHES, MARCHIO, AGNES, TIOLLAIS,
 PIERRE, DEJEAN, ANNE
 TITLE OF INVENTION: STEROID/THYROID HORMONE RECEPTOR-RELATED
 PROTEIN INAPPROPRIATELY EXPRESSED IN HUMAN HEPATOCELLULAR CARCINOMA
 NUMBER OF SEQUENCES: 11
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/134,130
 FILING DATE: 17-DEC-1987
 PRIOR APPLICATION DATA:
 SEQ ID NO: 6:
 LENGTH: 363
 5223606-6

Query Match 55.9%; Score 766; DB 6; Length 363;
 Best Local Similarity 55.5%; Pred. No. 1,1e-79;
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

Qy 12 PIFLNLVLAIEPGVVCAGHNNOPDSFALLSINELGEROLVHVYKAKALPFPNLIHV 71
 Db 115 PPLINLMSIEPDVYIAGHNTKPTDSSSLTSLNQLGSRQLSVKMSKSLPFRNLHI 174
 Qy 72 DDQMAVIOYSGWGLVFWGMSFTNNVSRMLYFADLVFNEYVMHKSRYMSQCVRRHL 131
 Db 175 DDQITLQYSGWGLVFWGMSFTNNVSRMLYFADLVFNEYVMHKSRYMSQCVRRHL 234
 Qy 132 SOEFGWLQITPQEFLLCKWALLFSIIPVDGLKNQKFPDELMNYIKELDR IACKRNPT 191
 Db 235 POEFVQLQVSOEFLCKWALLFSIIPVDGLKNQKFPDELMNYIKELDR IACKRNPT 294
 Qy 192 SCGRFFQTLKLDVQPIARELHQFTDLIKSHMVSVPPEMAIISVOVPKILSGK 251
 Db 295 SSSQRFYQLTKLDNLDHVLVQQLHYCLNTFIOSRALSVPEPMSSVIAAQLPKIAGM 354
 Qy 252 VKPIYFH 258
 Db 355 VKPLLFH 361

RESULT 5

US-08-764-870-14
 Sequence 14, Application US/08764870
 Patent No. 6236946
 GENERAL INFORMATION:
 APPLICANT: Scanlan, Thomas S
 APPLICANT: Baxter, John D
 APPLICANT: Fletcher, Robert J
 APPLICANT: Wagner, Richard L
 APPLICANT: Kushner, Peter J
 APPLICANT: Apiletti, James W
 TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
 TITLE OF INVENTION: Binding Domains
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Cooley Godward
 STREET: Five Palo Alto Square, 3000 El Camino Real
 CITY: Palo Alto
 STATE: CA

COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/764,870
 FILING DATE: 13-DEC-1996

CLASSIFICATION: 530

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/008,540
 FILING DATE: 13-DEC-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/008,543
 FILING DATE: 13-DEC-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/008,606
 FILING DATE: 14-DEC-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Nakamura, Jackie N

REGISTRATION NUMBER: 35,966
 REFERENCE/DOCKET NUMBER: UCAL-246/01US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650)843-5000

INFORMATION FOR SEQ. ID NO. 14:

SEQUENCE CHARACTERISTICS:
 LENGTH: 933 amino acids

TYPE: amino acid
 STRANDEDNESS:

TOPOLOGY: linear

US-08-764-870-14

Query Match 55.8%; Score 765; DB 3; Length 933;
 Best Local Similarity 55.5%; Pred. No. 5,6e-79;
 Matches 137; Conservative 57; Mismatches 53; Indels 0; Gaps 0;

Qy 12 PIFLNLVLAIEPGVVCAGHNNOPDSFALLSINELGEROLVHVYKAKALPFPNLIHV 71
 Db 685 PPLINLMSIEPDVYIAGHNTKPTDSSSLTSLNQLGSRQLSVKMSKSLPFRNLHI 744
 Qy 72 DDQMAVIOYSGWGLVFWGMSFTNNVSRMLYFADLVFNEYVMHKSRYMSQCVRRHL 131
 Db 745 DDQITLQYSGWGLVFWGMSFTNNVSRMLYFADLVFNEYVMHKSRYMSQCVRRHL 804
 Qy 132 SOEFGWLQITPQEFLLCKWALLFSIIPVDGLKNQKFPDELMNYIKELDR IACKRNPT 191
 Db 805 POEFVQLQVSOEFLCKWALLFSIIPVDGLKNQKFPDELMNYIKELDR IACKRNPT 864
 Qy 192 SCGRFFQTLKLDVQPIARELHQFTDLIKSHMVSVPPEMAIISVOVPKILSGK 251
 Db 865 SSSQRFYQLTKLDNLDHVLVQQLHYCLNTFIOSRALSVPEPMSSVIAAQLPKIAGM 924
 Qy 252 VKPIYFH 258
 Db 925 VKPLLFH 931

RESULT 6

US-08-980-115-14
 Sequence 14, Application US/08980115
 Patent No. 626622
 GENERAL INFORMATION:
 APPLICANT: Scanlan, Thomas S
 APPLICANT: Baxter, John D
 APPLICANT: Fletcher, Robert J
 APPLICANT: Wagner, Richard L
 APPLICANT: Kushner, Peter J
 APPLICANT: Apiletti, James W
 APPLICANT: West, Brian L
 APPLICANT: Shlau, Andrew K.

EARLIER APPLICATION NUMBER: 08/764,870
EARLIER FILING DATE: 1996-12-13
EARLIER APPLICATION NUMBER: 60/008,606
EARLIER FILING DATE: 1995-12-14
EARLIER APPLICATION NUMBER: 60/008,543
EARLIER FILING DATE: 1995-12-13
EARLIER APPLICATION NUMBER: 60/008,540
EARLIER FILING DATE: 1995-12-13
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 984
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: DOMAIN
LOCATION: (695)..(969)
OTHER INFORMATION: minimal ligand binding domain
US-08-980-115-15

Query Match 48.5%; Score 665; DB 3; Length 984;
Best Local Similarity 52.9%; Pred. No. 2e-67; Indels 0; Gaps 0;
Matches 128; Conservative 44; Mismatches 70;

Qy 17 VLEAIEPGVVCAGHNNQDPSFALLSLNIEGROLVVYVAKALPGRNLAHYDDQMA 76
Db 741 VLENIEPRVYGVYSSKEDTANLSTNRLAGKQVYVAKALPGRNLAHYDDQIT 800
Qy 77 VIQVSMGLVFMGMRSEFTVNSRMLYAPDLVFNEXYMKSRMYSQCVRMHL 136
Db 801 LIQVSMGLSFPALSMRSYKHTNSQFLVYAPDLVFNEXYMKSRMYSQCVRMHL 860
Qy 137 WLOIIPQERLCKALLPSIIPVDGKKNQKPFDELRMYTKELDRILACKRNPISCSR 196
Db 861 RLQLFEEYTTINKVLLSTIPKDGKSGAAPEERNTYIKELRKQVTKCPNNSQSQWR 920
Qy 197 FYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIISVOVEKILSGKRY 256
Db 921 FYQLTKLDSMDLVSDLEFCYTFRSHAKVFPMLVYIIDLPRVSGNAKELY 980
Qy 257 FH 258
Db 981 FH 982

RESULT 9
US-08-764-870-13.
Sequence 13, Application US/08764870
Patent No. 6236946

GENERAL INFORMATION:

APPLICANT: Scanlan, Thomas S
APPLICANT: Baxter, John D
APPLICANT: Pletterick, Robert J
APPLICANT: Wagner, Richard L
APPLICANT: Kushner, Peter J
APPLICANT: Apriletti, James W
APPLICANT: West, Brian
TITLE OF INVENTION: Nuclear Receptor Ligands and Ligand
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSER: Cooley Godward
STREET: Five Palo Alto Square, 3000 El Camino Real
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/764,870
FILING DATE: 13-DEC-1996
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/008,540
FILING DATE: 13-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/008,543
FILING DATE: 13-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/008,606
FILING DATE: 14-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Nakamura, Jackie N
REGISTRATION NUMBER: 35,966
REFERENCE/DOCKET NUMBER: UCAL-246/01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 843-5000
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 777 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-764-870-13

Query Match 48.3%; Score 662.5; DB 3; Length 777;
Best Local Similarity 50.6%; Pred. No. 2.7e-67;
Matches 125; Conservative 49; Mismatches 72; Indels 1; Gaps 1;

Qy 12 PIPNLVLEAIEPGVVCAGHNNQDPSFALLSLNIEGROLVVYVAKALPGRNLAHY 71
Db 530 PTLVSLLEVEPELVYGVYSSVSDSTWRTIMTILNMLGROVIAVAKALPGRNLAHY 589
Qy 72 DDQMAVIOVSMGLVFMGMRSEFTVNSRMLYAPDLVFNEXYMKSRMYSQCVRMHL 131
Db 590 DDQMTLLQVSMGLVFMGMRSEFTVNSRMLYAPDLVFNEXYMKSRMYSQCVRMHL 649
Qy 132 SQEFGMLQITPQERLCKALLPSIIPVDGKKNQKPFDELRMYTKELDRILACKRNP 191
Db 650 SSELRHQVSYERYLCKMTLLLSVDPKDGKSGQELPDEIRMTYIKELGKAIVRSGNSS 709
Qy 192 SCRRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEEMAEIISVOVEKILSG 251
Db 710 QNMRFYQLTKLDSMREVENILNLCFQFLDKTM-SIEPEMLAIIITNQLKYSNGN 768
Qy 252 VKPIYFH 258
Db 769 IKKLLFH 775

RESULT 10
US-08-980-115-13
Sequence 13, Application US/08980115
Patent No. 6266622

GENERAL INFORMATION:
APPLICANT: Scanlan, Thomas S.
APPLICANT: Baxter, John D.
APPLICANT: Pletterick, Robert J.
APPLICANT: Wagner, Richard L.
APPLICANT: Kushner, Peter J.
APPLICANT: Apriletti, James W.
APPLICANT: West, Brian L.
APPLICANT: Shiue, Andrew K.
TITLE OF INVENTION: NUCLEAR RECEPTOR LIGANDS AND LIGAND BINDING DOMAINS
FILE REFERENCE: UCAL-246/02US
CURRENT APPLICATION NUMBER: US/08/980,115
FILING DATE: 1997-11-26
EARLIER APPLICATION NUMBER: 08/764,870
EARLIER FILING DATE: 1996-12-13
EARLIER APPLICATION NUMBER: 60/008,606
EARLIER FILING DATE: 1995-12-14

EARLIER APPLICATION NUMBER: 60/008,543
 EARLIER FILING DATE: 1995-12-13
 EARLIER APPLICATION NUMBER: 60/008,540
 EARLIER FILING DATE: 1995-12-13
 NUMBER OF SEQ ID NOS: 17
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 13
 LENGTH: 777
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: DOMAIN
 LOCATION: (506)..(762)
 OTHER INFORMATION: minimal ligand binding domain
 US-08-980-115-13

Query Match 48.3%; Score 662.5; DB 3; Length 777;
 Best Local Similarity 50.6%; Pred. No. 2.7e-67;
 Matches 125; Conservative 49; Mismatches 72; Indels 1; Gaps 1;

QY 12 PFLNVLKALIEPGVCAHDNNQPDSPALLSSINELIGEROLVHVYKMAKALPGFENLHV 71
 DB 530 PTLVSLLEYIEPVLVAGYDSSVDPSTWIRMTITLMLGGRQVLAAYKMAKALPGFENLHV 589
 QY 72 DDGMVIOYSWNGMLTFPMGMRSPFTVNSMLYFADLVFNEYRMEKSRMYSCQVAMRL 131
 DB 590 DDGMVIOYSWNGMLTFPMGMRSPFTVNSMLYFADLVFNEYRMEKSRMYSCQVAMRL 649
 QY 132 SOEFGMLQITPQRFKCKALLPSIIPVDGLKNQKFEDELKMYIKELDRILACKKNPT 191
 DB 650 SSELHLOYSYERLYCKMTLLLSVFKDLSQELFDEIRMTYIKELGKALYKREGNS 709
 QY 192 SCGRFYOLTKLDSVQPIARELHQFTFDLLIKSHVSVDFPEMARIISVQPKILSGK 251
 DB 710 QMWRFYOLTKLDSMHEVENILNYCFQTFDXTM-SIEFPEMLARIITNOIPKYSNGN 768
 QY 252 VKPIYFH 258
 DB 769 IKKLPH 775

RESULT 11

US-08-875-223-8
 Sequence 8, Application US/08875223
 Patent No. 6127175
 GENERAL INFORMATION:
 APPLICANT: VIGNE, Emmanuelle
 APPLICANT: PERRICAUDET, Michel
 APPLICANT: DEDIEU, Jean-Francois
 APPLICANT: ORSINI, Cecile
 APPLICANT: YEH, Patrice
 APPLICANT: LATTA, Martine
 APPLICANT: PROST, Edouard
 TITLE OF INVENTION: CELLS FOR THE PRODUCTION OF RECOMBINANT
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Rhone-Poulenc Rorer Inc.
 STREET: 500 Arcola Road, Mailstop 3C43
 CITY: Collegetville
 STATE: PA
 COUNTRY: USA
 ZIP: 19426
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/875,223
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: FR 95/00747
 FILING DATE: 20-JAN-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 95/06532
 FILING DATE: 01-JUN-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR 95/10541
 FILING DATE: 08-SEP-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: FR WO FR96/00088
 FILING DATE: 19-JAN-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Rehner Esq., Paul F.
 REGISTRATION NUMBER: 35,135
 REFERENCE/DOCKET NUMBER: ST9500561-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (610) 454-3839
 TELEFAX: (610) 454-3808
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 534 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-875-223-8

Query Match 47.0%; Score 644.5; DB 3; Length 534;
 Best Local Similarity 51.3%; Pred. No. 1.8e-65;
 Matches 122; Conservative 46; Mismatches 69; Indels 1; Gaps 1;

QY 21 IEFGVCAHDNNQPDSPALLSSINELIGEROLVHVYKMAKALPGFENLHVDDGMVIOY 80
 DB 3 IEPEVLVAGYDSSVDPSTWIRMTITLMLGGRQVLAAYKMAKALPGFENLHVDDGMVIOY 62
 QY 81 SMGMLVPMGMRSPFTVNSMLYFADLVFNEYRMEKSRMYSCQVAMRLHSOEFGMLQI 140
 DB 63 SMGMLVPMGMRSPFTVNSMLYFADLVFNEYRMEKSRMYSCQVAMRLHSOEFGMLQI 122
 QY 141 TPOEFLCKMALLPSIIPVDGLKNQKFEDELKMYIKELDRILACKKNPTSCGRFYOL 200
 DB 123 SYEYLCKMTLLLSVFKDLSQELFDEIRMTYIKELGKALYKREGNSQNMRFYOL 182
 QY 201 TKLDSVQPIARELHQFTFDLLIKSHVSVDFPEMARIISVQPKILSGVXPIYFH 258
 DB 183 TKLDSMHEVENILNYCFQTFDXTM-SIEFPEMLARIITNOIPKYSNGNIXKLPH 239

RESULT 12

US-09-091-042A-2
 Sequence 2, Application US/09091042A
 Patent No. 6455300
 GENERAL INFORMATION:
 APPLICANT: The Government of the United States of America
 as represented by the Secretary
 Department of Health and Human Services
 Washington, D.C.
 Htun Ph.D., Han
 Hager Ph.D., Gordon L.
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MONITORING
 DNA BINDING MOLECULES IN LIVING CELLS
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Needle & Rosenberg
 STREET: 127 Peachtree Street, Suite 1200
 CITY: Atlanta
 STATE: Georgia
 COUNTRY: USA
 ZIP: 30303
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/091.042A
FILING DATE: 08-Jun-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/008.373
FILING DATE: 08 Dec 1995
ATTORNEY/AGENT INFORMATION:
NAME: Selby, Elizabeth
REGISTRATION NUMBER: 38298
REFERENCE/DOCKET NUMBER: 14014.0183
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-688-0770
TELEFAX: 404-688-9880
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1070 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULAR TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-091-042A-2

Query Match 46.6%; Score 639.5; DB 4; Length 1070;
Best Local Similarity 49.4%; Pred. No. 2e-64;
Matches 122; Conservative 48; Mismatches 76; Indels 1; Gaps 1;
QY 12 PIFLVNLEIIEBPGVCGAGHNNQPDSPALLSSINELGROLVHYVYKAKALPGFNNH 71
DB 823 PTVLSLEVIIEBPGVCGAGHNNQPDSPALLSSINELGROLVHYVYKAKALPGFNNH 882
QY 72 DDQMAVIOYSWMGLMVFAMGMSFTNVSRLMYPADLVFNERYMKSRMYSOCVPMRH 131
DB 883 DDQMTLQVSMFPLAFALGMSYROSSGNLFCFADPLINQRMSPGMYDCKHMLFV 942
QY 132 SQEFGMLQTPQFPLCMKALLFSIIPVDGLKNQKFPDELKMYIKELDRIIACKRKPT 191
DB 943 SSELQRLQVSEYELCKMTLLLSVPGKLSQGLFDEIRMTYIKELGKALVKBGNS 1002
QY 192 SCSRFPYOLTKLDSVQPIARELHPTDLIKSHMVSVDPEMAIISVQPKLSGK 251
DB 1003 QMWQRFYOLTKLDSMHEVEVNTLYCFOTFLDKTM-SIEFPMALAIITNOIPKYSNGN 1061
QY 252 VKPIYFH 258
DB 1062 IKKLFLH 1068

RESULT 13
US-08-592-214A-24
Sequence 24, Application US/08592214A
Patent No. 5811536
GENERAL INFORMATION:
APPLICANT: Yanofsky, Martin F.
TITLE OF INVENTION: Cauliflower Floral Meristem Identity
TITLE OF INVENTION: Genes and Methods of Using Same
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSER: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592.214A
FILING DATE: 26-JAN-1996

CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-UD 1927
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 284 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULAR TYPE: protein
US-08-592-214A-24

Query Match 46.6%; Score 638.5; DB 2; Length 284;
Best Local Similarity 49.4%; Pred. No. 3.5e-65;
Matches 122; Conservative 48; Mismatches 76; Indels 1; Gaps 1;
QY 12 PIFLVNLEIIEBPGVCGAGHNNQPDSPALLSSINELGROLVHYVYKAKALPGFNNH 71
DB 37 PTVLSLEVIIEBPGVCGAGHNNQPDSPALLSSINELGROLVHYVYKAKALPGFNNH 96
QY 72 DDQMAVIOYSWMGLMVFAMGMSFTNVSRLMYPADLVFNERYMKSRMYSOCVPMRH 131
DB 97 DDQMTLQVSMFPLAFALGMSYROSSGNLFCFADPLINQRMSPGMYDCKHMLFV 156
QY 132 SQEFGMLQTPQFPLCMKALLFSIIPVDGLKNQKFPDELKMYIKELDRIIACKRKPT 191
DB 157 SSELQRLQVSEYELCKMTLLLSVPGKLSQGLFDEIRMTYIKELGKALVKBGNS 216
QY 192 SCSRFPYOLTKLDSVQPIARELHPTDLIKSHMVSVDPEMAIISVQPKLSGK 251
DB 217 QMWQRFYOLTKLDSMHEVEVNTLYCFOTFLDKTM-SIEFPMALAIITNOIPKYSNGN 275
QY 252 VKPIYFH 258
DB 276 IKKLFLH 282

RESULT 14
US-09-149-976-24
Sequence 24, Application US/09149976
Patent No. 6127123
GENERAL INFORMATION:
APPLICANT: Yanofsky, Martin F.
TITLE OF INVENTION: Cauliflower Floral Meristem Identity
TITLE OF INVENTION: Genes and Methods of Using Same
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSER: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/149.976
FILING DATE: 09-SEP-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/592.214
FILING DATE: 26-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-UD 3291

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TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 533-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 284 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-149-976-24

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Query Match	46.6%	Score 638.5;	DB 3;	Length 284;
Best Local Similarity	49.4%;	Pred. No. 3.5e-65;		
Matches 122;	Conservative 48;	Mismatches 76;	Indels 1;	Gaps 1;

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Db 37 PIVSLLEVEIEPEVLVAGYDSSVPSDSAMKIMTTIMLNGGROYIAVAKKAILGLRLHL 96
QY 72 DDGMVAIOTSWMGLAVFANGMRSFTNVNSRMLYEAPDLVFNENRHKSRMYSOCVRMHL 131
Db 97 DDQMTLLQTSWMFLMFAFGWMSYROSSGNLLCPAPDLILNEORWSLPCMTDOCKHMLFV 156
QY 132 SOSRPMGLQITPBOEFLCMKALLPSIIPVUGLKNQAPPELBNNTYKELDIRIACKRNP 191
Db 157 SSELORLOYSYEYELCKMKTLLLSVPKGLGSQSLPFDIRNTYIKELGKALVYREGNSS 216
QY 192 SCGRFPVOLTCLDSDVQPIARBLHOFTPDLILKSHVSVDPENMARIIISQVPEKILSG 251
Db 217 QNMQRFOPLKCLDMSHEVEENILTYVCQTPIDKTM-SIEPEMLARIIITMQIPYSGN 275
QY 252 VKRPIYFH 256
Db 276 IKKLLFH 282

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RESULT 15
US-07-716-827C-5
Sequence 5, Application US/07716827C
Patent No. 5215916
GENERAL INFORMATION:
APPLICANT: Simons Jr., Stoney S.
APPLICANT: Yamamoto, K. R.
APPLICANT: Chakraborti, P. K.
APPLICANT: Garabedian, M. J.
TITLE OF INVENTION: SUPER GLUCOCORTICOID RECEPTORS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cushman, Darby & Cushman
STREET: Eleventh floor, 1615 L Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20036-5601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/07/716,827C
APPLICATION NUMBER: US/07/716,827C
FILING DATE: 19910619
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Scott, Watson T.
REGISTRATION NUMBER: 26,581
REFERENCE/DOCKET NUMBER: WTS/5683/84453
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)8613000
TELEFAX: (202)822-8944
TELEX: 6714627 CUSH
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:

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; LENGTH: 795 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-716-827C-5

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Query Match	46.6%;	Score 638.5;	DB 1;	Length 795;
Best Local Similarity	49.4%;	Pred. No. 1.6e-64;		
Matches 122;	Conservative 48;	Mismatches 76;	Indels 1;	Gaps 1.

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Job time : 20 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 9, 2003, 11:38:28 (Search time 45 Seconds)

(without alignments)
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Title: US-09-687-609a-1
Perfect score: 1371
Sequence: 1 GSHMIEGYRCQPIFNVLAE.....SVQPKILSGKXKPIYFHQ 260

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1371	100.0	260	22	AA97073
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3	1349.5	98.4	452	20	AAV21627
4	1349.5	98.4	839	23	ABG71292
5	1349.5	98.4	839	23	AA668238
6	1349.5	98.4	895	24	AAE32995
7	1349.5	98.4	895	24	AAE32996
8	1349.5	98.4	899	24	ABE72589
9	1349.5	98.4	902	10	AA93110

10	1349.5	98.4	902	10	AA931006
11	1349.5	98.4	907	24	ABG74229
12	1349.5	98.4	918	20	AAV31491
13	1349.5	98.4	919	10	AA93096
14	1349.5	98.4	919	18	AAW14783
15	1349.5	98.4	919	21	AAV78914
16	1349.5	98.4	919	23	ABJ05582
17	1349.5	98.4	919	23	AAE19061
18	1349.5	98.4	919	24	ABJ19809
19	1346.5	98.2	918	12	AAE12223
20	1341.5	97.8	919	10	AA93109
21	1338.5	97.6	902	12	AAE12224
22	1326	96.7	252	24	ABU08036
23	1243	90.7	246	23	AAU75930
24	1179	86.0	250	22	AA65959
25	937	60.3	630	12	AAE12230
26	813.5	59.3	294	23	ABE83822
27	765	55.8	251	21	AAE26786
28	765	55.8	251	23	ABJ15107
29	765	55.8	252	24	ABU08035
30	765	55.8	255	22	AAE97074
31	765	55.8	314	24	ABP70513
32	765	55.8	933	20	AAV21621
33	765	55.8	933	21	AAV97297
34	728	53.1	240	23	AAE17863
35	706	51.5	630	23	ABE80765
36	706	51.5	630	23	ABE80766
37	706	51.5	630	24	AAE35246
38	706	51.5	630	24	AAE35248
39	706	51.5	654	23	ABE80764
40	706	51.5	654	24	AAE35245
41	702	51.2	488	24	AAE35247
42	666.5	48.6	215	23	AAE58319
43	666	48.6	215	23	AAE17861
44	665.5	48.5	257	24	ABU08045
45	665.5	48.5	777	24	ABU08024

ALIGNMENTS

AA97073	1	AA97073 standard; Protein; 260 AA.
XX	AC	AA97073;
XX	DT	31-JUL-2001 (first entry)
XX	DE	Rat androgen receptor ligand binding domain.
XX	KW	Rat; androgen receptor; AR; ligand binding domain; LBD; osteopathic;
KW	KW	crystallographic structure; AR-LBD; AR modulator; prostate cancer;
KW	KW	age related disease; osteoporosis; muscle wasting; libido; vasotropic;
KW	KW	protein coordinate data.
OS	XX	Rattus sp.
XX	XX	WO200127622-A1.
XX	PN	19-APR-2001.
XX	PD	13-OCT-2000; 2000WO-US28495.
XX	PF	13-OCT-1999; 99US-0159394.
XX	PR	(BRIM) BRISTOL-MYERS SQUIBB CO.
XX	PA	Weinmann R, Einspahr HM, Krysiek SR, Sack JS, Salvati ME;
XX	PI	Tokarski JS, Wang C, Altar RM;
XX	DR	WPI; 2001-300222/31.

Rat androgen recep
Canine Androgen re
Human androgen rec
Human androgen rec
Androgen receptor.
Human androgen rec
Breast cancer-asso
Human androgen rec
Androgen-indende
Human androgen rec
Human androgen rec
Rat androgen recep
Human steroid rece
Androgen receptor
Human androgen rec
Type/androgen rece
Human androgen rec
Human progesterone
LBDG1 related prot
Human steroid rece
Rat progesterone r
Andro acid sequenc
Ligand binding dom
Human progesterone
Chain A of structu
Geneswitch regulat
Truncated GATA DBD
PSI163 V.4.0 plas
Geneswitch regulat
pGLV65 plasmid ge
Glucocorticoid rec
Chain A of structu
Mutant human gluco

PT New crystallographic structure of the Androgen receptor ligand binding domain, useful for identifying modulators of androgen receptors -
 PS Example; Page 27; 83pp; English.

CC The present sequence is the rat androgen receptor (AR) ligand-binding domain (LBD). It is provided in an example illustrating an invention relating to a new crystallographic structure of the AR-LBD. The structure comprises either an AR-LBD and an AR-LBD ligand, or an AR-LBD without an AR-LBD ligand (where the crystal diffracts to at least 3 angstrom resolution) and has a crystal stability within 5 ° of its unit cell dimensions). The AR-LBD is useful for identifying modulators of the androgen receptor, which may be used for treating prostate cancer and age related diseases such as osteoporosis, muscle wasting and loss of libido.

CC Sequence 260 AA;

Query Match 100.0%; Score 1371; DB 22; Length 260;
 Best Local Similarity 100.0%; Pred. No. 3.8e-135;
 Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 1 GSHMIEGECOPFLVNLVLAIEEGVVCAGHDNNQPSFALLSLNLSLGEROLVHVVKMA 60
 1 GSHMIEGECOPFLVNLVLAIEEGVVCAGHDNNQPSFALLSLNLSLGEROLVHVVKMA 60

QY 61 KALPGRNLAVDDOMAVIQYSWGLVFWFAMGWSFTNVNSRMLYFADLVFNERYMHKSR 120
 DB 61 KALPGRNLAVDDOMAVIQYSWGLVFWFAMGWSFTNVNSRMLYFADLVFNERYMHKSR 120

QY 121 MYSQCVRMRLHSGEFGMLQITPQEFLLCMKALLFSIIPVGLKNOKRPFDELNNYIKELD 180
 DB 121 MYSQCVRMRLHSGEFGMLQITPQEFLLCMKALLFSIIPVGLKNOKRPFDELNNYIKELD 180

QY 181 RIACRKNPTSCSRRTYQTLKLDVQPIARELHQTFTDLLKSHNVSVDPEMMAEIT 240
 DB 181 RIACRKNPTSCSRRTYQTLKLDVQPIARELHQTFTDLLKSHNVSVDPEMMAEIT 240

QY 241 SVQPKILSGKVPPIYFHTQ 260
 DB 241 SVQPKILSGKVPPIYFHTQ 260

RESULT 2
 ABB83821
 ID ABB83821 standard; Protein; 388 AA.

AC ABB83821;
 XX
 DT 13-SEP-2002 (first entry)

DE Human androgen receptor variant AR42 SRQ ID NO 2.
 XX Human androgen receptor; receptor; AR; AR42; AR32; tumour; cancer;
 KM steroid response element; prostate cancer; testis; gene therapy;
 KW hormone therapy; cytostatic; contraceptive.

OS Homo sapiens.
 XX
 PN BP1213300-A1.

PD 12-JUN-2002.
 XX
 PF 26-OCT-2001; 2001EP-0250379.

PR 30-NOV-2000; 2000DB-1061161.
 XX
 PA (SCHD) SCHERING AG.

XX Ahrens-Fath I, Haendler B,
 XX
 DR WPI; 2002-530575/57.
 DR N-PSDB; ABN85656.

XX New nucleic acid encoding variant forms of androgen receptor; useful
 PT for diagnosis and treatment of prostatic cancer; also related proteins
 PS and antibodies -
 XX Claim 5; Page 9-11; 25pp; German.

CC The invention relates to a nucleic acid (I) that encodes an androgen receptor (AR) variant AR42 (ABN85656) or AR32 (ABN85657) or its equivalents or a sequence that hybridises to them under stringent conditions. Polypeptides (II), ABB83821-ABN83822) expressed by (I), can bind androgens and other ligands and form heterodimers which can bind to steroid response elements in target genes but do not induce activation, so act as repressors of the known AR. (II) are used to raise specific antibodies. (I) are used for recombinant production of (II) and as probes for detecting (I)-related nucleic acid in tumour tissue. Also (I), (II), CC a specific peptide and cells transfected with (I)-containing vectors, are useful for identifying effectors of (II), specifically antiandrogenic agents potentially useful for treating androgen-related diseases, e.g. CC cancer of prostate or testis and as male contraceptives. (I) can be used CC similarly in gene therapy. Antibodies to (II) are used to detect or CC quantify (II) in tumour tissue, e.g. to determine if resistance to hormone therapy is the result of altered expression of (II).

CC Sequence 388 AA;

Query Match 98.4%; Score 1349.5; DB 23; Length 388;
 Best Local Similarity 99.6%; Pred. No. 1.2e-132;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SMIEGECOPFLVNLVLAIEEGVVCAGHDNNQPSFALLSLNLSLGEROLVHVVKMA 61
 DB 131 SMIEGECOPFLVNLVLAIEEGVVCAGHDNNQPSFALLSLNLSLGEROLVHVVKMA 189

QY 62 ALPGRNLAVDDOMAVIQYSWGLVFWFAMGWSFTNVNSRMLYFADLVFNERYMHKSRM 121
 DB 190 ALPGRNLAVDDOMAVIQYSWGLVFWFAMGWSFTNVNSRMLYFADLVFNERYMHKSRM 249

QY 122 YSQCVRMRLHSGEFGMLQITPQEFLLCMKALLFSIIPVGLKNOKRPFDELNNYIKELD 181
 DB 250 YSQCVRMRLHSGEFGMLQITPQEFLLCMKALLFSIIPVGLKNOKRPFDELNNYIKELD 309

QY 182 RIACRKNPTSCSRRTYQTLKLDVQPIARELHQTFTDLLKSHNVSVDPEMMAEIT 241
 DB 310 RIACRKNPTSCSRRTYQTLKLDVQPIARELHQTFTDLLKSHNVSVDPEMMAEIT 369

QY 242 VQPKILSGKVPPIYFHTQ 260
 DB 370 VQPKILSGKVPPIYFHTQ 388

RESULT 3
 AAY21627
 ID AAY21627 standard; protein; 452 AA.

AC AAY21627;
 XX
 DT 11-AUG-1999 (first entry)

DE Ligand binding domain of nuclear receptor hAR.
 XX
 KW Thyroid hormone receptor; aromatic compound; ligand binding domain;
 KW alpha-glucosidase; dehydrogenase; cardiac; obesity; triglyceride;
 KW plasma cholesterol; anti-hypertriglyceridaemic; atherosclerosis; GPDH;
 KW thyroid hormone replacement therapy; nuclear receptor.

OS Homo sapiens.
 XX
 PN WO9926966-A2.

XX 03-JUN-1999.
 XX
 PF 25-NOV-1998; 98WO-US25296.

XX 26-NOV-1997; 97US-0980115.
XX
XX (REGC) UNIV CALIFORNIA.

XX Apriletti JW, Baxter JD, Fletterick RJ, Kushner PJ;
XX Scanlan TS, Shlau AK, Wagner RL, West BL;
XX WPI, 1999-357810/30.

XX Modulating activity of a thyroid hormone receptor
XX
XX Disclosure; Fig 3H-R; 447p; English.

XX The invention relates to a method for modulating activity of a thyroid
XX hormone receptor that comprises administration of an aromatic compound
XX which fits spatially and preferentially into a thyroid hormone ligand
XX binding domain. The aromatic compound (of a specified formula) can be
XX used to increase alpha-glycerophosphate dehydrogenase (GPDH) levels, at
XX levels which do not significantly modify cardiac GPDH levels and are
XX indicated in the treatment of obesity. The compound also lower total
XX plasma cholesterol and triglyceride levels and can be used as anti-
XX hypertriglyceridaemic-agent. The compound may also be used for treating
XX atherosclerosis and may be indicated in thyroid hormone replacement
XX therapy in patients with compromised cardiac function. Sequences
XX AA921621- 636 amino acid sequences of ligand binding domains of several
XX members of the nuclear receptor superfamily.

XX Sequence 452 AA;

Query Match 98.4%; Score 1349.5; DB 20; Length 452;
Best Local Similarity 99.6%; Pred. No. 1.5e-132;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIGYECOPFLNVLAIIEPGVVCAGHDNNQDPSFALLSLNLSGERQLVHVYKAK 61
DB 195 SH-IBGYECOPFLNVLAIIEPGVVCAGHDNNQDPSFALLSLNLSGERQLVHVYKAK 253
QY 62 ALPGFRLNVLDDQMAVIOYSWGLVFPAMGWSFTNVNSRMLYFAPDLVFNERYRHKSRM 121
DB 254 ALPGFRLNVLDDQMAVIOYSWGLVFPAMGWSFTNVNSRMLYFAPDLVFNERYRHKSRM 313
QY 122 YSQCVMRHLISOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELD 181
DB 314 YSQCVMRHLISOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELD 373
QY 182 IIAKCRKNPTSCSRPFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 241
DB 374 IIAKCRKNPTSCSRPFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 433
QY 242 VQVPKILSGKVPPIYFHTQ 260
DB 434 VQVPKILSGKVPPIYFHTQ 452

RESULT 4

ID ABG71292 standard; Protein; 839 AA.

XX ABG71292;

XX 08-JAN-2003 (first entry)

XX Human androgen receptor.

XX Pharmacological; receptor; endocrine disrupting chemical; EDC;
XX simultaneous determination; ligand binding activity; human;
XX androgen receptor.

XX Chimeric - Homo sapiens.
XX Chimeric - Bacteria.
XX Synthetic.

PN JP2002243739-A.
XX
XX 28-AUG-2002.

XX 21-FEB-2001; 2001JP-0045420.

XX 21-FEB-2001; 2001JP-0045420.

XX (TOWN) TOYOBO KK.

XX WPI, 2002-744851/81.

XX N-PSDB; ABS56325.

XX A method and a kit for simultaneous determination of binding activity
XX of ligand with 2 or more receptors using their corresponding tracers
XX
XX Example 3; Page 13-15; 22pp; Japanese.

XX The present invention relates to a new method for simultaneous
XX determination of binding activity of a ligand with 2 or more receptors
XX using their corresponding tracers, and a kit for the determination.
XX The invention can be used for screening of ligands with pharmacological
XX activity via receptor and endocrine disrupting chemicals (EDCs). The
XX invention is advantageous as it allows simultaneous determination of
XX binding activity of ligand. The present amino acid sequence represents
XX the human androgen receptor as described in the invention.

XX Sequence 839 AA;

Query Match 98.4%; Score 1349.5; DB 23; Length 839;
Best Local Similarity 99.6%; Pred. No. 3.6e-132;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIGYECOPFLNVLAIIEPGVVCAGHDNNQDPSFALLSLNLSGERQLVHVYKAK 61
DB 582 SH-IBGYECOPFLNVLAIIEPGVVCAGHDNNQDPSFALLSLNLSGERQLVHVYKAK 640
QY 62 ALPGFRLNVLDDQMAVIOYSWGLVFPAMGWSFTNVNSRMLYFAPDLVFNERYRHKSRM 121
DB 641 ALPGFRLNVLDDQMAVIOYSWGLVFPAMGWSFTNVNSRMLYFAPDLVFNERYRHKSRM 700
QY 122 YSQCVMRHLISOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELD 181
DB 701 YSQCVMRHLISOEFGMLQITPOEFLCMKALLFSIIPVDGLKNQKFFDELRMNYIKELD 760
QY 182 IIAKCRKNPTSCSRPFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 241
DB 761 IIAKCRKNPTSCSRPFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 820
QY 242 VQVPKILSGKVPPIYFHTQ 260
DB 821 VQVPKILSGKVPPIYFHTQ 839

RESULT 5

ID AAG68238 standard; Protein; 839 AA.

XX AAG68238;

XX 08-FEB-2002 (first entry)

XX Fused androgen receptor (AR) protein SEQ ID NO.11.

XX Human; androgen receptor; AR; fused androgen receptor protein;
XX fusion androgen receptor protein; sugar-combining protein;
XX maltose-combining protein.

XX Chimeric - Homo sapiens.
XX Chimeric - Unidentified.
XX JP2001252080-A.

PD 18-SEP-2001.
 XX 13-MAR-2000; 2000JP-0069030.
 XX 13-MAR-2000; 2000JP-0069030.
 XX (TOWM) TOYOCO KK.
 XX WPI, 2002-029658/04.
 DR N-PSDB; ABA01683.
 XX
 XX New polypeptide for screening drugs, comprises an androgen receptor
 PT protein fused with a sugar-combining protein
 PS
 PS Claim 8, Page 11-13; 16pp; Japanese.
 XX
 XX The present invention describes a fused androgen receptor (AR) protein
 CC prepared by fusing an androgen receptor protein with a sugar-combining
 CC protein. Also described are: (1) a gene encoding the above fused AR
 CC protein; (2) a vector carrying the above gene; (3) a transformant in
 CC which the above vector is introduced to a microbe and a gene encoding
 CC the fused AR protein is expressed; (4) the preparation of a fused AR
 CC protein in which the above transformant is cultured and the fused AR
 CC protein is collected from the resultant culture; and (5) a reagent for
 CC detecting the presence of interaction with a ligand containing the
 CC above fused AR protein, a solvent for dissolving chemical substances
 CC and a diluent liquid of the dissolved chemical substances. The fusion
 CC protein can be used for screening drugs. The present sequence represents
 CC the AR protein and sugar-combining protein fusion protein from the
 CC present invention.
 XX
 XX
 XX Sequence 839 AA;
 SQ
 Query Match 98.4%; Score 1349.5; DB 23; Length 839;
 Best Local Similarity 99.6%; Pred. No. 3.6e-132;
 Matches 258; Conservative 0; Mismatches- 1; Indels 1; Gaps 1;
 QY 2 SHMIEGECOPFLNVLTAIEIRGVVCAAGHNNOPSPFALLSSINIEGROLVHVYVMK 61
 DB 582 SH-IEGECOPFLNVLTAIEIRGVVCAAGHNNOPSPFALLSSINIEGROLVHVYVMK 640
 QY 62 ALPGFRNLAVDDQMAVIOYSMMGLVFPAMGWRSTFNVSRLYFAPDLVFNERYMRKSRM 121
 DB 641 ALPGFRNLAVDDQMAVIOYSMMGLVFPAMGWRSTFNVSRLYFAPDLVFNERYMRKSRM 700
 QY 122 YSQCVMRRLSOEFGWLQITPOEFLCKKALLFSIIIPVDGLKNOKFDELRMNYIKELDR 181
 DB 701 YSQCVMRRLSOEFGWLQITPOEFLCKKALLFSIIIPVDGLKNOKFDELRMNYIKELDR 760
 QY 182 IIAKCKRNPTSCSRRTYQTLKLDVOPILARELHOFPTDLLIKSHNVSVDFPEMAEITIS 241
 DB 761 IIAKCKRNPTSCSRRTYQTLKLDVOPILARELHOFPTDLLIKSHNVSVDFPEMAEITIS 820
 QY 242 VQVPKILSGKVPPIYFHTQ 260
 DB 821 VQVPKILSGKVPPIYFHTQ 839
 RESULT 6
 AAE32995
 ID AAE32995 standard; Protein; 895 AA.
 XX
 XX AAE32995;
 XX
 XX 02-APR-2003 (first entry)
 XX
 XX Macaca mulatta androgen receptor (rhAR).
 XX
 XX Androgen receptor; rhAR protein; bone formation; atherosclerosis; acne;
 KM myoanabolism; sarcopenia; benign prostatic hyperplasia; hypogonadism;
 KM lipid metabolism; hirsutism; prostate disease; hippocampal function;
 KM cancer; rhesus monkey; single nucleotide polymorphism; SNP; therapy.
 XX

OS Macaca mulatta.
 XX
 XX Key Location/Qualifiers
 FH Misc-difference 210
 FT /note= "This residue changes to Gly due to single
 FT nucleotide polymorphism (SNP)"
 FT Domain 535..600
 FT /note= "DNA binding domain"
 XX
 XX WO200290529-A1.
 XX
 XX 14-NOV-2002.
 XX
 XX 03-MAY-2002; 2002WO-US14175.
 XX
 XX 08-MAY-2001; 2001US-289573P.
 XX
 XX (MERI) MERCK & CO INC.
 XX
 XX Towler DA, Chen F;
 XX WPI, 2003-103516/09.
 DR N-PSDB; AAD50740.
 XX
 XX
 XX New DNA encoding Macaca mulatta androgen receptor (rhAR) protein,
 PT useful for screening rhAR agonists and/or antagonists, and in
 PT identifying tissue selective androgen compounds such as those active in
 PT bone formation or myoanabolism
 XX
 XX Claim 25; Page 38; 84pp; English.
 XX
 XX The invention relates to a DNA encoding Macaca mulatta androgen receptor
 CC (rhAR) protein. Nucleic acid molecules of the invention are useful for
 CC screening agonists and/or antagonists of rhAR and in identifying tissue
 CC selective androgen compounds including those active in bone formation,
 CC myoanabolism, treatment of sarcopenia, benign prostatic hyperplasia,
 CC acne, hirsutism, male hypogonadism, atherosclerosis, relief of post-
 CC menopause symptoms, treatment and prevention of prostate or breast
 CC cancer and management of lipids. AR modulators may be used to regulate
 CC development, production and maintenance of bone and muscle, in the
 CC treatment of prostate disease and in regulation of lipid metabolism
 CC (rhesus monkey) androgen receptor.
 CC
 CC
 CC Sequence 895 AA;
 SQ
 Query Match 98.4%; Score 1349.5; DB 24; Length 895;
 Best Local Similarity 99.6%; Pred. No. 3.9e-132;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMIEGECOPFLNVLTAIEIRGVVCAAGHNNOPSPFALLSSINIEGROLVHVYVMK 61
 DB 638 SH-IEGECOPFLNVLTAIEIRGVVCAAGHNNOPSPFALLSSINIEGROLVHVYVMK 696
 QY 62 ALPGFRNLAVDDQMAVIOYSMMGLVFPAMGWRSTFNVSRLYFAPDLVFNERYMRKSRM 121
 DB 697 ALPGFRNLAVDDQMAVIOYSMMGLVFPAMGWRSTFNVSRLYFAPDLVFNERYMRKSRM 756
 QY 122 YSQCVMRRLSOEFGWLQITPOEFLCKKALLFSIIIPVDGLKNOKFDELRMNYIKELDR 181
 DB 757 YSQCVMRRLSOEFGWLQITPOEFLCKKALLFSIIIPVDGLKNOKFDELRMNYIKELDR 816
 QY 182 IIAKCKRNPTSCSRRTYQTLKLDVOPILARELHOFPTDLLIKSHNVSVDFPEMAEITIS 241
 DB 817 IIAKCKRNPTSCSRRTYQTLKLDVOPILARELHOFPTDLLIKSHNVSVDFPEMAEITIS 876
 QY 242 VQVPKILSGKVPPIYFHTQ 260
 DB 877 VQVPKILSGKVPPIYFHTQ 895
 RESULT 7
 AAE32996


```

ID AAE32996 standard; Protein; 895 AA.
XX
XX AAE32996;
AC
XX 02-APR-2003 (first entry)
XX
XX Macaca mulatta androgen receptor (rhAR) allelic variant protein.
DE
XX Androgen receptor; rhAR protein; bone formation; atherosclerosis; acne;
XX myoanabolism; sarcopaenia; benign prostatic hyperplasia; hypogonadism;
XX lipid metabolism; hirsutism; prostate disease; hippocampal function;
XX cancer; rheus monkey; single nucleotide polymorphism; SNP; therapy.
OS
XX Macaca mulatta.
PH
XX Key Location/Qualifiers
FT Misc-difference 210
FT /note="wild-type Glu is changed to Gly due to single
FT nucleotide polymorphism (SNP)"
FT Domain 535..600
FT /note="DNA binding domain"
XX
XX WO200290529-A1.
XX
XX 14-NOV-2002.
XX
XX 03-MAY-2002; 2002WO-US14175.
XX
XX 08-MAY-2001; 2001US-289573P.
XX
XX (MERI ) MERCK & CO INC.
XX
XX Towler DA, Chen F;
XX
XX WPI; 2003-103516/09.
XX
XX N-PSDB; AAD50741.
XX
XX New DNA encoding Macaca mulatta androgen receptor (rhAR) protein,
XX useful for screening rhAR agonists and/or antagonists, and in
XX identifying tissue selective androgen compounds such as those active in
XX bone formation or myoanabolism -
XX
XX Claim 55; Page 46; 84pp; English.
XX
XX The invention relates to a DNA encoding Macaca mulatta androgen receptor
XX (rhAR) protein. Nucleic acid molecules of the invention are useful for
XX screening agonists and/or antagonists of rhAR and in identifying tissue
XX selective androgen compounds including those active in bone formation,
XX acne, hirsutism, male hypogonadism, atherosclerosis, relief of post-
XX menopausal symptoms, treatment and prevention of prostate or breast
XX cancer and management of lipids. AR modulators may be used to regulate
XX development, production and maintenance of bone and muscle, in the
XX treatment of prostate disease and in regulation of lipid metabolism
XX and hippocampal function. The present sequence is Macaca mulatta
XX (rheus monkey) androgen receptor allelic variant protein.
XX
XX Sequence 895 AA;
SQ
Query Match 98.4%; Score 1349.5; DB 24; Length 895;
Best Local Similarity 99.6%; Pred. No. 3.9e-132;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 2 SHMIBSYECOPITLNTLEAIBPGVACAGHDNNDPSFALLSLNIGEROLVHVVKMAK 61
DB 638 SH-IBEYECOPITLNTLEAIBPGVACAGHDNNDPSFALLSLNIGEROLVHVVKMAK 696
QY 62 ALBGFNLTVDVDDMAVIOYSWAGLMTFAMGMBSPFVUNSGMLTYRADLYNRYRMKSKM 121
DB 697 ALBGFNLTVDVDDMAVIOYSWAGLMTFAMGMBSPFVUNSGMLTYRADLYNRYRMKSKM 756
QY 122 YSQCVMRHLISQBFGLQITPQEFLLCKALLFSIIPVDGLKNQKFFDELMMYIKELDR 181

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DB 757 YSQCVMRHLISQBFGLQITPQEFLLCKALLFSIIPVDGLKNQKFFDELMMYIKELDR 816
QY 182 IIAKCKNPTSCSRRRYQATKLLDSVQPIARLHQTPTLLIKSHNVSDPFPMAEITS 241
DB 817 IIAKCKNPTSCSRRRYQATKLLDSVQPIARLHQTPTLLIKSHNVSDPFPMAEITS 876
QY 242 VQVFKILSGKVPKPIYFHTQ 260
DB 877 VQVFKILSGKVPKPIYFHTQ 895
RESULT 8
ABP72589
ID ABP72589 standard; Protein; 899 AA.
XX
XX ABP72589;
AC
XX 29-MAY-2003 (first entry)
XX
XX Mouse androgen receptor.
DE
XX Androgen receptor; receptor; ARKO; mouse; transgenic mouse;
XX knockout animal; cancer; tumour.
XX
XX Mus musculus.
XX
XX WO2003012394-A2;
XX
XX 13-FEB-2003.
XX
XX 29-JUL-2002; 2002WO-US24234.
XX
XX 27-JUL-2001; 2001US-308356P.
XX
XX 17-MAY-2002; 2002US-381309P.
XX
XX (UYRP ) UNIV ROCHESTER.
XX
XX Chang C, Yeh S;
XX
XX WPI; 2003-247910/25.
XX
XX N-PSDB; ABZ81677, ABZ81679.
XX
XX Composition for generating androgen receptor knockout mice for studying
XX the role of an androgen receptor in cancer, comprises a cell having a
XX disrupted androgen receptor gene -
XX
XX Disclosure; Page 75; 99pp; English.
XX
XX The present sequence is that of the murine androgen receptor (AR).
XX The invention relates to compositions and methods for disrupting an
XX AR gene and for studying the role of the AR in cancer. Compositions
XX comprising a cell having a disrupted AR gene are claimed. The cell
XX is especially an embryonic stem cell, an embryonic germ cell, a
XX breast cell, a breast cancer cell, an ovary cell, an ovary cancer
XX cell, a prostate cell, a testis cell, a bone cell, a brain cell, a
XX neural cell or a muscle cell. Also claimed is a transgenic mammal,
XX especially a mouse, comprising a disrupted AR gene, especially a
XX disrupted AR gene lacking exon 2 of the AR gene, where the
XX control of an inducible promoter specific for breast, ovary, neural,
XX bone, testis, liver or prostate. Also claimed is a method of
XX determining the effect of a steroid on the AR by incubating the
XX steroid with an AR disrupted cell line and assaying its effect. A
XX claimed method of evaluating treatment for cancer xenografts
XX involves injecting a cell that has a disrupted AR locus into an
XX ovariectomized mouse, especially a nude mouse, where the xenograft
XX comprises a cell from a breast cancer or ovarian cancer tissue line.
XX Tumour formation can be evaluated in an androgen receptor knockout
XX (ARKO) mouse by injecting the cancer-causing agent into the mouse.
XX
XX Sequence 899 AA;
SQ
Query Match 98.4%; Score 1349.5; DB 24; Length 899;

```

Best Local Similarity 99.6%; Pred. No. 4e-132;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGTCOPIFLNVLEAIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVYKAK 61
DB 642 SH-1BEGTCOPIFLNVLEAIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVYKAK 700
QY 62 ALPGFRNLHVDDQMAVIOYSMMGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSKM 121
DB 701 ALPGFRNLHVDDQMAVIOYSMMGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSKM 760
QY 122 YSCQVRMRHSOERGMLOITPOEFLCMKALLFSIIPVDGLKNOKEFDELRMNYIKELDR 181
DB 761 YSCQVRMRHSOERGMLOITPOEFLCMKALLFSIIPVDGLKNOKEFDELRMNYIKELDR 820
QY 182 IIACKRNPTSCSRPFYQTLKLDVSQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 241
DB 821 IIACKRNPTSCSRPFYQTLKLDVSQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 880
QY 242 VOVPKILSGKVKPIYFHTQ 260
DB 881 VOVPKILSGKVKPIYFHTQ 899

RESULT 9

AAP93110
ID AAP93110 standard; protein; 902 AA.

AC AAP93110;

DT 25-MAR-2003 (updated)

DT 19-MAR-1990 (first entry)

DE Rat androgen receptor.

KM Rat androgen receptor; monoclonal antibody; polyclonal antibody; cancer.

OS Rattus rattus.

PN W08909791-A.

PD 19-OCT-1989.

PF 13-APR-1989; 89WO-US01548.

PR 14-APR-1988; 88US-0182646.

PA (UYN-C) UNIV OF N CAROLINA.

PI French FS, Wilson EM, Joseph DR, Lubahn DB;

DR WPI; 1989-324206/44.

DR N-PSDB; AAN91773.

PT DNA encoding androgen receptor protein - useful for transforming eukaryotic hosts for protein expression and subsequent antibody prodn.

PS Disclosure; Fig. 5; 41pp; English.

XX Androgen receptor protein (AR) is used to produce mono- or poly-clonal antibodies. These are used for the detection and quantification of AR in the presence of endogenous androgen, as androgen will not interfere with binding. They may be used in assays to determine and quantify cellular distribution of AR in tumour tissue, and are esp. useful for evaluating prostate cancers to determine responsiveness to androgen withdrawal therapy.

CC (Updated on 25-MAR-2003 to correct PA field.)

SO Sequence 902 AA;

Query Match 98.4%; Score 1349.5; DB 10; Length 902;
Best Local Similarity 99.6%; Pred. No. 4e-132;
Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 SHMIEGTCOPIFLNVLEAIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVYKAK 61
DB 642 SH-1BEGTCOPIFLNVLEAIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVYKAK 703
QY 62 ALPGFRNLHVDDQMAVIOYSMMGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSKM 121
DB 704 ALPGFRNLHVDDQMAVIOYSMMGLVFPAMGWSFTNVSRMLYFAPDLVFNERYMHSKM 763
QY 122 YSCQVRMRHSOERGMLOITPOEFLCMKALLFSIIPVDGLKNOKEFDELRMNYIKELDR 181
DB 764 YSCQVRMRHSOERGMLOITPOEFLCMKALLFSIIPVDGLKNOKEFDELRMNYIKELDR 823
QY 182 IIACKRNPTSCSRPFYQTLKLDVSQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 241
DB 824 IIACKRNPTSCSRPFYQTLKLDVSQPIARELHQFTFDLLIKSHMVSVDPEEMAEIIS 883
QY 242 VOVPKILSGKVKPIYFHTQ 260
DB 884 VOVPKILSGKVKPIYFHTQ 902

RESULT 10

AAP91006
ID AAP91006 standard; protein; 902 AA.

AC AAP91006;

DT 25-MAR-2003 (updated)

DT 28-FEB-1990 (first entry)

DE Rat androgen receptor DNA clone.

KM Androgen receptor; TR2 polypeptide;

OS Rat.

PH Key Location/Qualifiers

FT Region 1..902

FT /tag= a /product=98 kD polypeptide

FT 170..902 /tag= b /product=79 kD polypeptide

PN W08909223-A.

PD 05-OCT-1989.

PF 24-MAR-1989; 89WO-JP01238.

PR 30-MAR-1988; 88US-0176107.

PR 05-OCT-1988; 88US-0253807.

PR 21-FEB-1989; 89US-0312763.

PA (ARCH-) ARCH DEV CORP.

PI Liao S, Chang C;

DR WPI; 1989-309501/42.

DR N-PSDB; AAN91578.

PT New DNA encoding new androgen receptor and TR2 polypeptide(s) - able to bind DNA, and derived antibodies, useful for receptor assay and purification.

PS Claim 8; Fig 3; 60pp; English.

CC The protein is used to raise antibodies for receptor assays and for affinity purification.
CC The 98 kD product starts at the first Met codon; the 79 kD product starts from the second.
CC (Updated on 25-MAR-2003 to correct PF field.)

PR 12-MAR-1998; 98US-0041886.
 XX (BURN-) BURNHAM INST.
 PA
 XX Bredesen DE, Rabizadeh S;
 PI
 XX MPI, 1999-561617/47.
 DR N-PSDB; AA223424.
 XX
 XX New proapoptotic dependence peptides, used to develop products for
 PT treating, e.g. Alzheimer's disease -
 PS Disclosure; Page 90-93; 1999p; English.
 XX
 XX This invention describes novel pure proapoptotic dependence peptides
 CC which comprise a sequence of an active dependence domain selected from
 CC dependence polypeptides consisting of p75NTR, androgen receptor, DCC,
 CC huntingtin polypeptide, Machado-Joseph disease gene product, SCA1, SCA2,
 CC SCA6 and atrophin-1 polypeptide. The proapoptotic peptides are capable
 CC of inducing cell death and can be used to develop products to mediate or
 CC inhibit apoptosis. The methods can be used for reducing the severity of
 CC a proapoptotic dependence domain mediated pathological conditions e.g.
 CC Huntington's disease, Alzheimer's disease, Kennedy's disease,
 CC Spinocerebellar ataxias, dentatorubropallidoluysian atrophy,
 CC Machado-Joseph disease, stroke or head trauma. They can also be used for
 CC reducing the severity of a pathological condition mediated by upregulated
 CC cell proliferation or cell survival e.g. neoplastic, malignant,
 CC autoimmune or fibrotic conditions. This sequence represents a human
 CC androgen receptor described in the method of the invention.
 XX
 XX Sequence 918 AA;
 SQ
 ? Query Match 98.4%; Score 1349.5; DB 20; Length 918;
 ? Best Local Similarity 99.6%; Pred. No. 4.1e-132;
 ? Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 \$Y 2 SHMISGECOPIFLNVLAIEIPGVCAGHNNQDPSFALLSSINELGSRQLVHVVKMAK 61
 DB SH-1EGYECOPIFLNVLAIEIPGVCAGHNNQDPSFALLSSINELGSRQLVHVVKMAK 719
 QY 62 ALPGFRNLHVDDQMAVIOYSMGLMVFAMGWSFTVNSRMLYFAPDLVFNERYMKSRLM 121
 DB ALPGFRNLHVDDQMAVIOYSMGLMVFAMGWSFTVNSRMLYFAPDLVFNERYMKSRLM 779
 QY 122 YSQCRMHLISQEFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELPMNYIKELDR 181
 DB YSQCRMHLISQEFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELPMNYIKELDR 839
 QY 182 IIAKRRKNTSCSRPFYOLTKLSDVOPILARELHOFTFDLLIKSHMVSVPFEMMAEITS 241
 DB IIAKRRKNTSCSRPFYOLTKLSDVOPILARELHOFTFDLLIKSHMVSVPFEMMAEITS 899
 QY 242 VQVPKILSGKVPPIYFHTQ 260
 DB VQVPKILSGKVPPIYFHTQ 918
 RESULT 13
 AAP90996
 ID AAP90996 standard; protein; 919 AA.
 AC AAP90996;
 XX
 XX 25-MAR-2003 (updated)
 DT 28-FEB-1990 (first entry)
 XX
 XX Human androgen receptor DNA clone.
 DE Androgen receptor; TR2 polypeptide;
 XX
 XX Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers

FT Region 1..919
 FT /*tag= a
 FT /product=98 kD polypeptide
 FT 185..919
 FT Region
 FT /*tag= b
 FT /product=79 kD polypeptide
 XX
 XX W08099223-A.
 XX
 XX 05-OCT-1989.
 XX
 XX 24-MAR-1989; 89WO-JP01238.
 XX
 XX 30-MAR-1988; 88US-0176107.
 PR 05-OCT-1988; 88US-0253807.
 PR 21-FEB-1989; 89US-0312763.
 XX
 XX (ARCH-) ARCH DEV CORP.
 PI Liao S, Chang C;
 XX
 XX MPI; 1989-309501/42.
 DR N-PSDB; AAN91577.
 XX
 XX New DNA encoding new androgen receptor and TR2 polypeptide(s) - able
 PT to bind DNA, and derived antibodies, useful for receptor assay and
 PT purification.
 XX
 XX Claim 8; Fig 3; 60pp; English.
 XX
 XX The protein is used to raise antibodies for receptor assays and for
 CC affinity purification.
 CC The 98 kD product starts at the first Met codon; the 79 kD product
 CC starts from the second.
 CC (Updated on 25-MAR-2003 to correct PF field.)
 CC (Updated on 25-MAR-2003 to correct PR field.)
 CC (Updated on 25-MAR-2003 to correct PA field.)
 XX
 XX Sequence 919 AA;
 SQ
 Query Match 98.4%; Score 1349.5; DB 10; Length 919;
 Best Local Similarity 99.6%; Pred. No. 4.1e-132;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMISGECOPIFLNVLAIEIPGVCAGHNNQDPSFALLSSINELGSRQLVHVVKMAK 61
 DB SH-1EGYECOPIFLNVLAIEIPGVCAGHNNQDPSFALLSSINELGSRQLVHVVKMAK 720
 QY 62 ALPGFRNLHVDDQMAVIOYSMGLMVFAMGWSFTVNSRMLYFAPDLVFNERYMKSRLM 121
 DB ALPGFRNLHVDDQMAVIOYSMGLMVFAMGWSFTVNSRMLYFAPDLVFNERYMKSRLM 780
 QY 122 YSQCRMHLISQEFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELPMNYIKELDR 181
 DB YSQCRMHLISQEFGLQITPOEFLCMKALLFSIIPVDGLKNQKFPDELPMNYIKELDR 840
 QY 182 IIAKRRKNTSCSRPFYOLTKLSDVOPILARELHOFTFDLLIKSHMVSVPFEMMAEITS 241
 DB IIAKRRKNTSCSRPFYOLTKLSDVOPILARELHOFTFDLLIKSHMVSVPFEMMAEITS 900
 QY 242 VQVPKILSGKVPPIYFHTQ 260
 DB VQVPKILSGKVPPIYFHTQ 919
 RESULT 14
 AAW14783
 ID AAW14783 standard; Protein; 919 AA.
 AC AAW14783;
 XX
 XX 22-JUN-1997 (first entry)
 DT

DE Androgen receptor.
 XX Androgen receptor; acidic fibroblast growth factor; aFGF;
 KM antisense; benign prostatic hyperplasia; prostate cancer; therapy.
 XX Homo sapiens.
 OS
 XX MO9711170-A1.
 PN
 XX 27-MAR-1997.
 PD
 XX 20-SEP-1996; 96MO-US15081.
 PF
 XX 20-SEP-1995; 95US-0004018.
 PR
 XX (WORC-) WORCESTER FOUND BIOMEDICAL RES.
 PA
 XX Zamecnik PA;
 PI
 XX WPI; 1997-202879/18.
 DR N-PSDB; AAT63407.
 XX
 PT Oligonucleotide(s) antisense to human androgen receptor and acidic
 PT RGF genes - used to inhibit gene expression, for the treatment of
 PT benign prostatic hyperplasia
 XX
 PS Disclosure; Page 22-28; 51pp; English.
 XX
 CC Human androgen receptor (AAW4783) binds testosterone and, acting
 CC at the transcriptional level, regulates the growth of normal
 CC prostatic cells. Antisense oligonucleotides (see also AAT63200,
 CC AAT63404-05) based on an androgen receptor cDNA clone (see also
 CC AAT63407) can be used to prevent androgen receptor gene expression,
 CC thereby inhibiting the growth or survival of prostatic cells for
 CC the treatment of benign prostatic hyperplasia and prostate cancer.
 CC
 SQ Sequence 919 AA;
 Query Match 98.4%; Score 1349.5; DB 18; Length 919;
 Best Local Similarity 99.6%; Pred. NO. 4.1e-132;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMIEGYECOPFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVVKMAK 61
 DB 662 SH-IEGYECOPFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVVKMAK 720
 QY 62 ALPGFRNLHVDDQMAVIOYSWGLMVFAMGWSFTVNSRMLYFADLVFNEYRMKSRM 121
 DB 721 ALPGFRNLHVDDQMAVIOYSWGLMVFAMGWSFTVNSRMLYFADLVFNEYRMKSRM 780
 QY 122 YSCVVRMHLISOEFGMLQITPOEFLCMKALLFSIIIPVDGLKNQKFPBELRMNYIKEIDR 181
 DB 781 YSCVVRMHLISOEFGMLQITPOEFLCMKALLFSIIIPVDGLKNQKFPBELRMNYIKEIDR 840
 QY 182 IIAACKRNPTSCSRFRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 241
 DB 841 IIAACKRNPTSCSRFRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 900
 QY 242 VQVPRILSGKVKPIYFHTQ 260
 DB 901 VQVPRILSGKVKPIYFHTQ 919
 RESULT 15
 AAY78914
 ID AAY78914 standard; protein; 919 AA.
 XX
 AC AAY78914;
 XX
 DT 23-MAY-2000 (first entry)
 XX
 DE Human androgen receptor (AR) amino acid sequence.

KM Androgen receptor; AR; androgen-independent activation; inhibitor;
 KM cancer; benign prostatic hyperplasia; hirsutism; androgenic alopecia;
 KM acne; breast cancer; Kennedy disease; prostate cancer.
 XX Homo sapiens.
 OS
 XX MO200001813-A2.
 PN
 XX 13-JAN-2000.
 PD
 XX 30-JUN-1999; 99MO-CA00604.
 PF
 XX 30-JUN-1998; 98US-0091871.
 PR
 XX (UYBR-) UNIV BRITISH COLUMBIA.
 PA
 XX Sadar MD, Bruchovsky N, Gout PW, Snoek R, Mawji NR;
 PI
 XX WPI; 2000-182113/16.
 DR
 XX
 PT Novel non-androgen ligand binding peptides for inhibiting
 PT androgen-independent activation of androgen receptor, used for
 PT screening compounds and for treatment of androgen-mediated diseases
 PT such as prostate cancer
 XX
 PS Disclosure; Page 7; 32pp; English.
 XX
 CC This sequence represents the human androgen receptor (AR) amino acid
 CC sequence. The invention relates to a fragment of the AR corresponding to
 CC amino acids 234-391 (see AAY78913). The fragment mediates
 CC androgen-independent activation of the AR. The androgen receptor acts as
 CC a transcription factor, regulating the expression of certain
 CC androgen-responsive genes. Interaction of the AR with the protein kinase
 CC A signal transduction pathway involves interaction with the androgen
 CC independent region. The AR fragment and peptides derived from it can be
 CC used as agents for inhibiting androgen independent activation of the
 CC androgen receptor, as activation domains, and as a tool for screening
 CC for compounds which affect androgen-independent activation of the AR.
 CC The peptides, when used in combination with androgen deprivation,
 CC effectively limit androgen mediated disease progression. These diseases
 CC include cancer, benign prostatic hyperplasia, hirsutism, androgenic
 CC alopecia, acne, breast cancer, Kennedy disease, and especially prostate
 CC cancer. The peptides and nucleic acids encoding them, are especially used
 CC for the treatment of androgen-mediated diseases, especially prostate
 CC tumours in patients deprived of androgen.
 CC
 SQ Sequence 919 AA;
 Query Match 98.4%; Score 1349.5; DB 21; Length 919;
 Best Local Similarity 99.6%; Pred. NO. 4.1e-132;
 Matches 258; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 2 SHMIEGYECOPFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVVKMAK 61
 DB 662 SH-IEGYECOPFLNVLAIIEPGVVCAGHDNNQPSFALLSSINELGERQLVHVVKMAK 720
 QY 62 ALPGFRNLHVDDQMAVIOYSWGLMVFAMGWSFTVNSRMLYFADLVFNEYRMKSRM 121
 DB 721 ALPGFRNLHVDDQMAVIOYSWGLMVFAMGWSFTVNSRMLYFADLVFNEYRMKSRM 780
 QY 122 YSCVVRMHLISOEFGMLQITPOEFLCMKALLFSIIIPVDGLKNQKFPBELRMNYIKEIDR 181
 DB 781 YSCVVRMHLISOEFGMLQITPOEFLCMKALLFSIIIPVDGLKNQKFPBELRMNYIKEIDR 840
 QY 182 IIAACKRNPTSCSRFRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 241
 DB 841 IIAACKRNPTSCSRFRFYQLTKLDSVQPIARELHQFTFDLLIKSHMVSVDPEMMAEITIS 900
 QY 242 VQVPRILSGKVKPIYFHTQ 260
 DB 901 VQVPRILSGKVKPIYFHTQ 919

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